

PARTS MANUAL

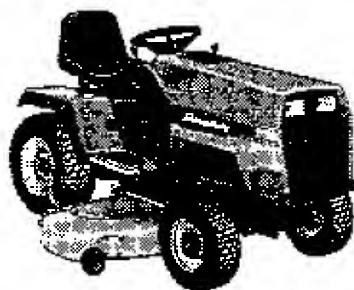
18 & 20 GTH SunStar SERIES

14 HP
Mfg. No. 1691250

16 HP
Mfg. No. 1691357

18 HP
Mfg. No. 1691017
Mfg. No. 1691380
Mfg. No. 1691528
Mfg. No. 1691924

20 HP
Mfg. No. 1691018
Mfg. No. 1691381
Mfg. No. 1691710
Mfg. No. 1691926
Mfg. No. 1691528
Mfg. No. 1691953



Simplicity

Product Identification:

When ordering parts, keep your products serial number and manufacturer's number in mind. Variations may occur in a part between early and later model products, causing the product serial number to be listed in the parts description whenever these variations occur.

Record your I.D. numbers here for quick, future reference.

Product Mfg. No. _____ S/N _____ Mower Mfg. No. _____ S/N _____

Attention:

Standard torques appear in a chart at the end of the manual, while important individual torques are given on specific parts drawings.

CRITICAL and **MAJOR** notations point out important facts or instructions which relate to personal safety and proper machine operation. Any **CRITICAL** notation **C**, which may appear in this book, pinpoints characteristics which, if not properly followed, can create a safety hazard. Any **MAJOR** notation **M**, which may appear in this book, marks characteristics which, if not properly followed, may result in operating failure, shortened product life, or greatly reduced quality of the unit. For your convenience, assembly notes are included in parts drawings to assist in repair and assembly of unit.

OILS - SPECIFICALLY BLENDED OF HIGH QUALITY BASE OILS & ADDITIVES.

Special Worm Gear Oils: Required for protection of brass gears and mating parts.

- Warm Weather Worm Gear Oil for use in tillers w/worm drive. Quart, Part #118065; Case of 12 Quarts, Part #1685100.
- Cold Weather Worm Gear Oil for snowthrowers with worm gear drive. 8 Oz. Bottle, Part #1704636, Case of 12 8 Oz. Bottles, Part #1685406.

Multi-Purpose Hydraulic/Transmission Oil for use in most hydraulic applications, and hydrostatic and gear transmissions. Specific Simplicity applications: All hydrostatic transmissions, all bevel gear cases, all Broadmoor, Landlord, Sovereign, 4000, 6000, 6100, 6200, & 7000 Series transmissions (except Peerless Gear Transmissions). (Not used in SunStar tractor transmission.) Case of 12 Quarts, Part #1685516, 2½ Gallon Container, Part #1685539.

SAE 5W 30 SF/CD Cold Weather Engine Oil for use in all four cycle and diesel engines at 30° temp. and under. Case of 12 Quarts, Part #1685576.

SAE 15W40 SF/CD Engine Oil for gas and diesel engines, warm weather; see engine manufacturer recommendations. Case of 12 Quarts, Part #1685554.

GREASE GUN KIT has 12" flexible hose to get into tight spots with ease. Kit contains: gun and 1-8 Oz. tube of grease. Part #1685510. For replacement tube, order Part #103077.

PNEUMATIC TIRE SEAL seals all leaks including bead leaks and punctures up to 3/16 inch diameters. Prevents flats for tread life of tire. Available in following amounts.

Case of 12 - 11 Oz. Tubes	1685537
Case of 24 - 11 Oz. Tubes	1685525
5 Gallon Pail	1685527

DESIGNER SEAT COVERS are double stitched, easy care vinyl. Keeps new seats new, makes worn seats look new.

Small Seat Cover w/Pocket, Part #1685540. Fits all Rear Engine Riders, Broadmoor, 3000, 4000, 5000, 5100, SunRunner & FC Series Tractors.

TOUCH-UP PAINT keeps equipment in showroom condition.

Spray Cans	Quarts	Daubers-12 Per Ctn.
<i>For Products Built After 8/1/89.</i>		
"Deep Orange" 13 Oz. Can 1685611 Case 12 Cans 1685614	1685612	1685616 Mixed 6 Deep Or., 6 White ½ Oz. Bottles
"Textured Black" 13 Oz. Can 1685610 Case 12 Cans 1685618	1685617	N/A
<i>For Products Built 7/1/88 thru 8/1/89.</i>		
"Powder Orange" 13 Oz. Can 1685589 Case 12 Cans 1685590	1685591	1685593 Mixed 6 Powder Or., 6 White ½ Oz. Bottles
"Black" 13 Oz. Can 1685551 Case 12 Cans 1685552	N/A	N/A
<i>For Products Built 12/1/85 thru 7/1/88.</i>		
"Classic Orange" 13 Oz. Can 1685558 Case 12 Cans 1685559	1685560	1685562 Mixed 6 Classic Or., 6 White ½ Oz. Bottles
"Black" 13 Oz. Can 1685551 Case 12 Cans 1685552	N/A	N/A
<i>For 1977 thru Early Model Year 1985 Products</i>		
"Simplicity Orange" 13 Oz. Can 103262 Case 12 Cans 1685179	1685037	1685520 Mixed 6 Simpl. Or., 6 White ½ Oz. Bottles
<i>All Models</i>		
"White" 13 Oz. Can 103049 Case 12 Cans 1685178	1685032	See Above

Consult decal on equipment for proper orange color.

Large Seat Cover w/Pocket, Part #1685541. Fits all Landlord, Sovereign, Baron, 5200, LTH, 6000, 6500, GTH, 7000 & 9000 Series Tractors.

SunStar Seat Cover, Part #1685577. Fits all SunStar Tractors.

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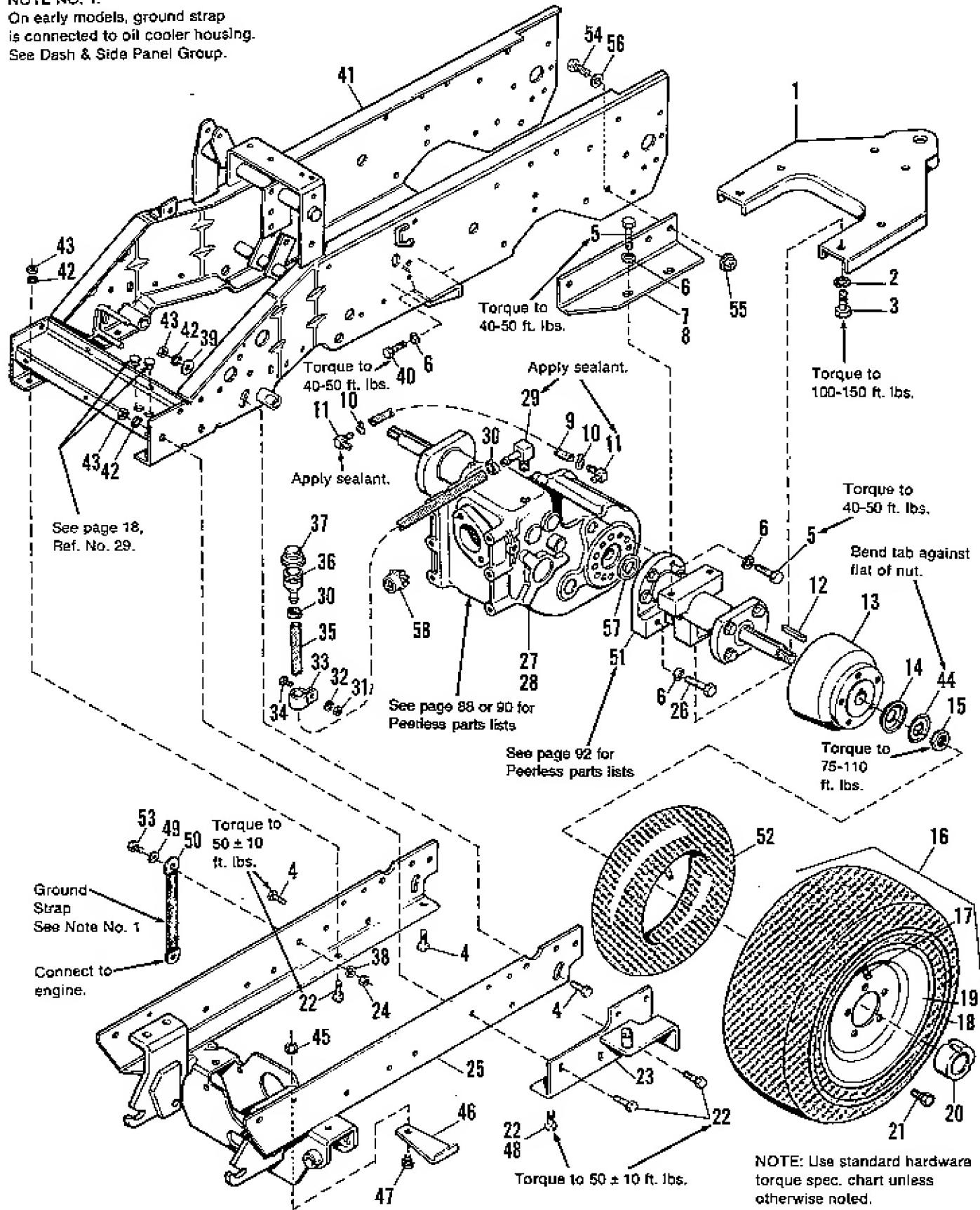
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NOTE NO. 13

**On early models, ground strap
is connected to oil cooler housing.
See Dash & Side Panel Group.**



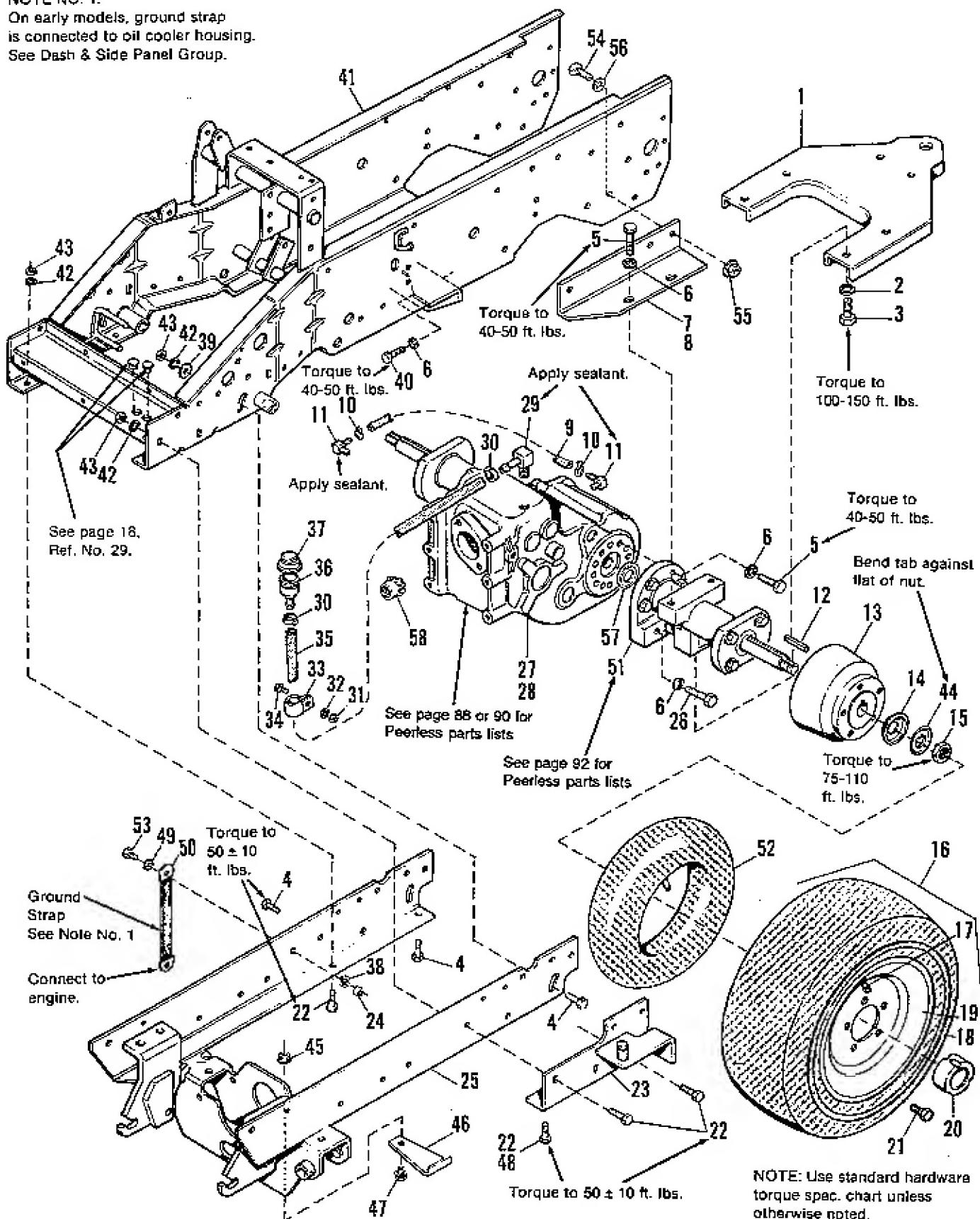
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1	1674422	1	DRAWBAR
2	1917373	4	LOCKWASHER, 5/8"
3	1923151	4	CAPSCREW, Hex Hd., 5/8-11 x 1-1/4
4	1920676	14	CAPSCREW, Hex Hd., 7/16-14 x 1, Gr. 5 (Qty. 11 on 1691018, 1691381, 1691528, 1691924)
5	1920328	12	CAPSCREW, Hex Hd., 1/2-13 x 1-1/2
6	1916966	17	LOCKWASHER, 1/2
7	1674386	1	SUPPORT, Transmission, R.H.
8	1674387	1	SUPPORT, Transmission, L.H.
9	1675794	1	HOSE, Fluid Level
10	1929301	2	CLAMP, SAE #6
11	1675793	2	FITTING, Elbow
12	920456	2	KEY, 5/16 x 5/16 x 2-1/2
13	1676154	2	DRUM, Brake
14	1676520	2	RETAINER, Hub Cap
15	1980259	2	NUT, Hex, Jam Centerlock, 1-14
16	1678797	2	WHEEL & TIRE ASSY., 23 x 10.5-12 (Incl. Ref. Nos. 17, 18 & 19) (All models except 1691250, 1691357, & 1691953)
	1701216	2	WHEEL & TIRE ASSY., 23 x 8.5-12 (Incl. Ref. Nos. 17, 18 & 19) (1691250 & 1691357 only)
	1700856	2	WHEEL & TIRE ASSY., 26 x 12.00-12 (Incl. Ref. Nos. 17, 18 & 19) (1691953 only)
17	172353	1	VALVE STEM & CAP
18	1678798	1	TIRE, Turf, 23 x 10.5-12 (All models except 1691250, 1691357 & 1691953)
	1701217	1	TIRE, Turf, 23 x 8.5-12 (1691250 & 1691357 only)
	1701346	1	TIRE, Turf, 26 x 12.00-12 (1691953 only)
	1700684	1	TIRE, Bar Tread (Ag), RH, 26 x 12.00-12 (use only w/ 60" mower)
	1700685	1	TIRE, Bar Tread (Ag), LH, 26 x 12.00-12 (use only w/ 60" mower)
19	173430	1	WHEEL (all models except 1691953)
	1701344	1	WHEEL (1691953 only)
20	1678519	2	CAP, Hub
21	8261100	10	BOLT, Hub
22	1920677	2	CAPSCREW, Hex Hd., 7/16-14 x 1-1/4, Gr. 5 (Qty. 5 on 1691018, 1691381, 1691528, 1691710, 1691924, 1691926, 1691928, 1691953 only)
23	1685431	1	BRACKET ASSY., Power Steering Cylinder (Power Steering Models Only)
24	1916950	1	NUT, Hex, 3/8-16 (1691017 & 1691018 only)
25	1675933	1	FRONT FRAME ASSY.
26	1921024	4	CAPSCREW, Hex Hd., 1/2-13 x 2
*27	-	1	TRANSAXLE, Peerless (2 Speed) (1691018, 1691381, 1691710, 1691926, 1691928, 1691953) (See page 91.)
*28	-	1	TRANSAXLE, Peerless (1 Speed) (1691017, 1691250, 1691357, 1691380, 1691528, 1691924) (See page 89.)

NOTE: See an authorized Tecumseh dealer for parts and service. Peerless parts are not available thru Simplicity. However, an exploded view of the Peerless transmission is shown at the end of the manual.

Ref. No. 29 thru 58 found on pages 6 and 7.

NOTE NO. 1:
On early models, ground strap
is connected to oil cooler housing.
See Dash & Side Panel Group.

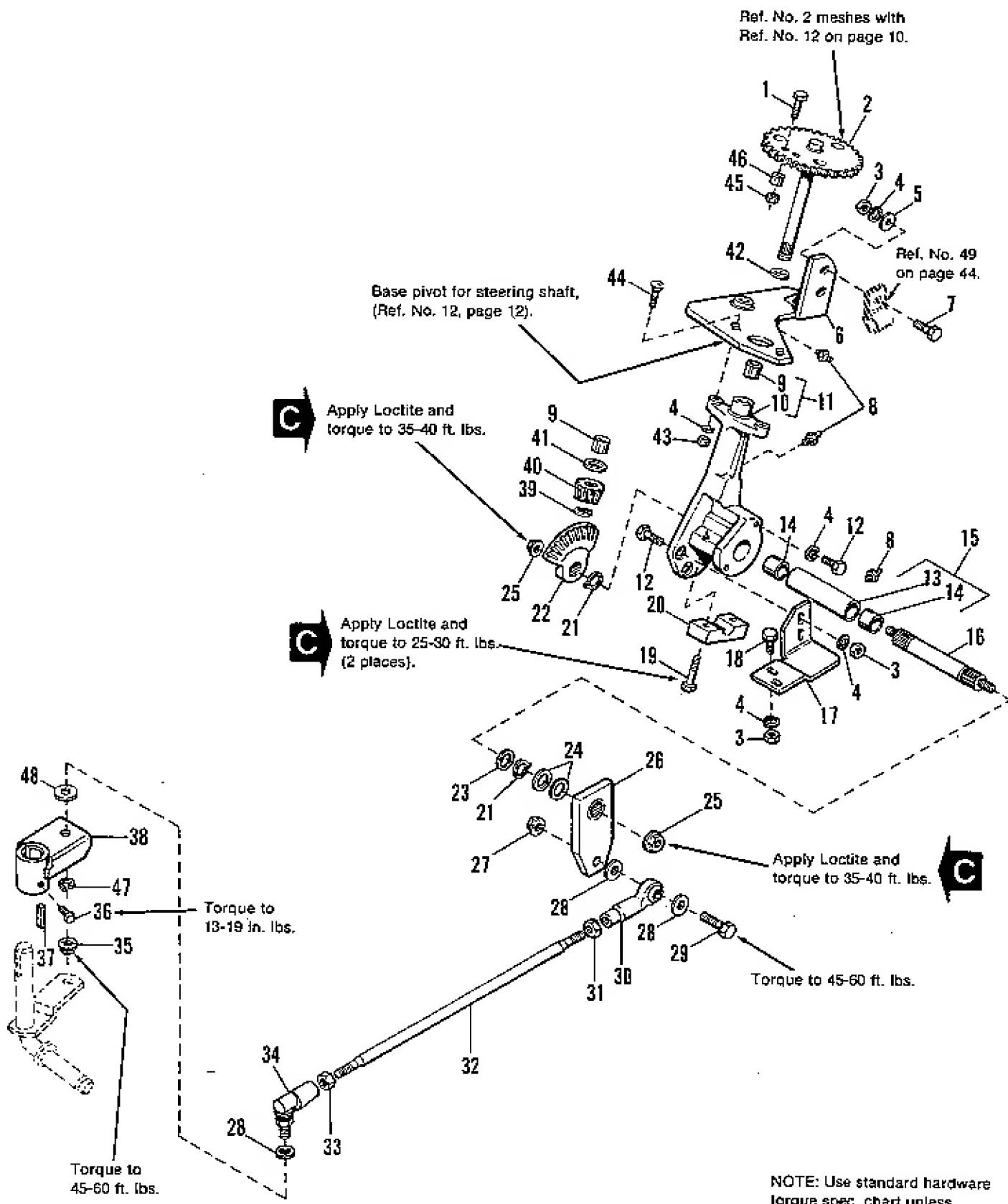
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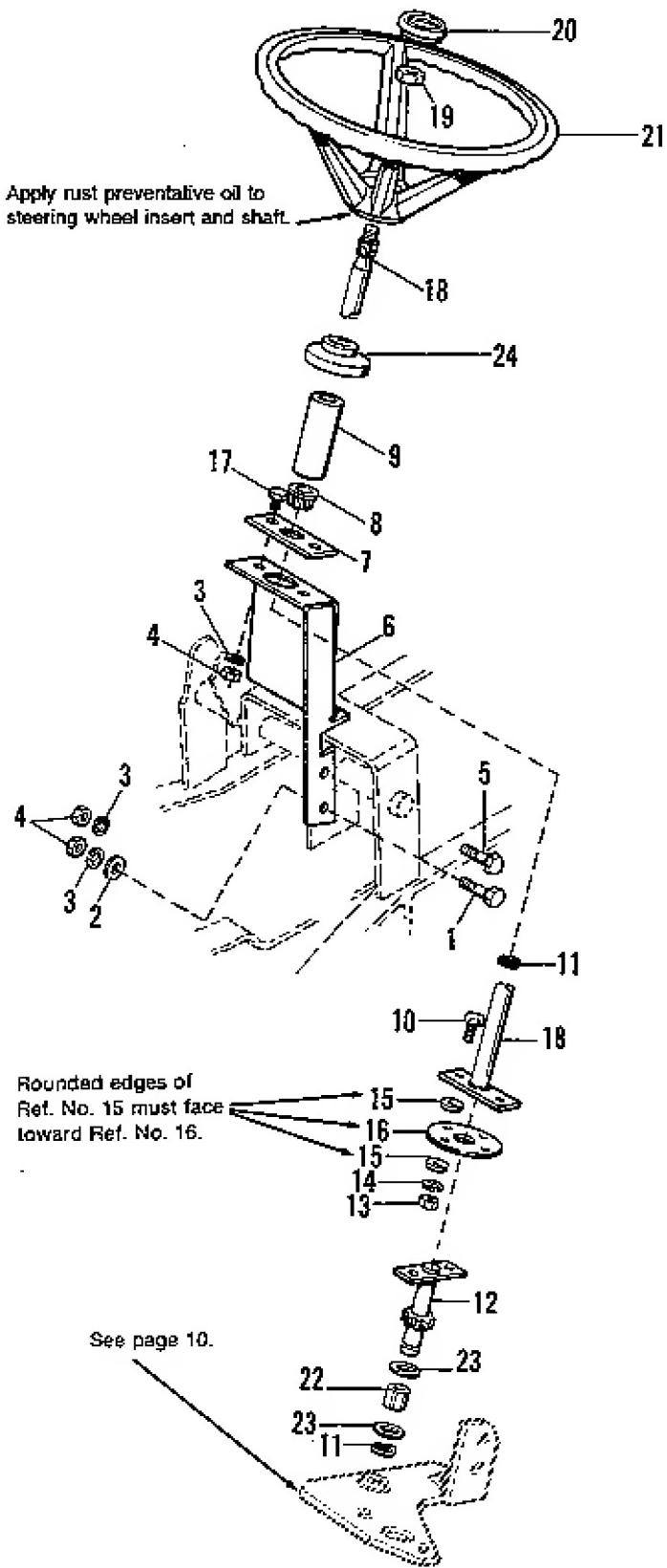
Ref. No.	Part No.	Qty.	Description
29	1676399	1	FITTING, Hose, 90
30	960266	2	CLAMP, Hose, Worm Drive, SAE #10
31	1916622	1	NUT, Hex, 1/4-20
32	1916964	1	LOCKWASHER, 1/4
33	1676527	1	CLAMP, Insulated
34	1923341	1	CAPSCREW, Hex Hd., 1/4-20 x 3/4
35	1676402	1	HOSE, Filler, 1/2" I.D.
36	1676466	1	NECK, Filler
37	1676467	1	CAP, Filler
38	1916965	1	LOCKWASHER, 3/8 (1691017, 1691018 only)
39	1924361	1	WASHER, Plain, 1/2 (1691018, 1691381, 1691528, 1691710, 1691924, 1691926, 1691928, & 1691953 only)
40	1921176	1	CAPSCREW, Hex Hd., 1/2-13 x 1-1/4
41	1685395	1	FRAME ASSY., Rear
42	1918199	10	LOCKWASHER, 7/16 (Qty. 11 on 1691018, 1691381, 1691528, 1691710, 1691924, 1691926, 1691928, 1691953)
43	1918213	10	NUT, Hex, 7/16-14 (Qty. 11 on 1691018, 1691381, 1691528, 1691710, 1691924, 1691926, 1691928, 1691953)
44	1679383	2	RETAINER NUT
45	1928352	1	NUT, Whizlock, 3/8-16 (1691017 & 1691018 only)
46	1679479	1	STOP, Axle (1691017 & 1691018 only)
47	1934654	1	SCREW, Whizlock, 3/8-16 x 1 (1691017 & 1691018 only)
48	1921212	1	CAPSCREW, 7/16-14 x 1-1/2 (1691018, 1691381, 1691528, 1691710, 1691924, 1691926, 1691928, 1691953 only)
49	920427	2	WASHER, Ext. Tooth (1691017 & 1691018 only)
50	1673603	1	GROUND STRAP (1691017 & 1691018 only)
*51		1	AXLE, Housing Assy., Peerless (See page 92.)
52	1576388	2	TUBE, 23" (all models except 1691953)
	1701389	2	TUBE, 26" (1691953 only)
53	1921210	1	CAPSCREW, 3/8-16 x 1 (1691017, 1691018 only)
54	1923471	6	CAPSCREW, Hex Hd., 7/16-14 x 1-1/4
55	1935041	6	NUT, Hex Flange, 7/16-14
56	1676435	6	WASHER, Plain
57	1674417	2	SPACER, Axle
58	1674418	1	GEAR, Bevel

NOTE: See an authorized Tecumseh dealer for parts and service. Peerless parts are not available thru Simplicity. However, an exploded view of the Peerless transmission is shown at the end of the manual.

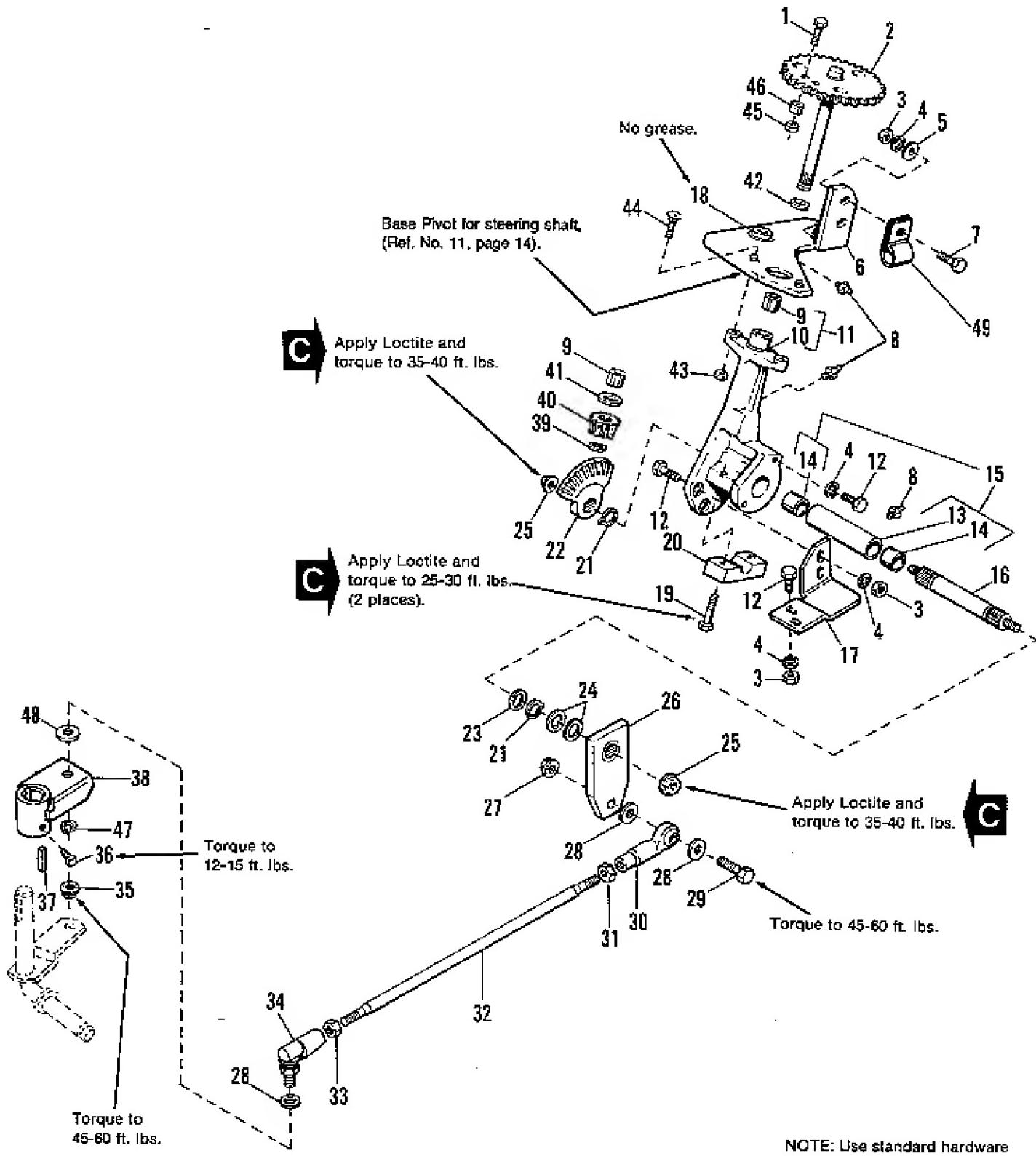
Ref. Nos. 1 thru 28 found on pages 4 and 5.



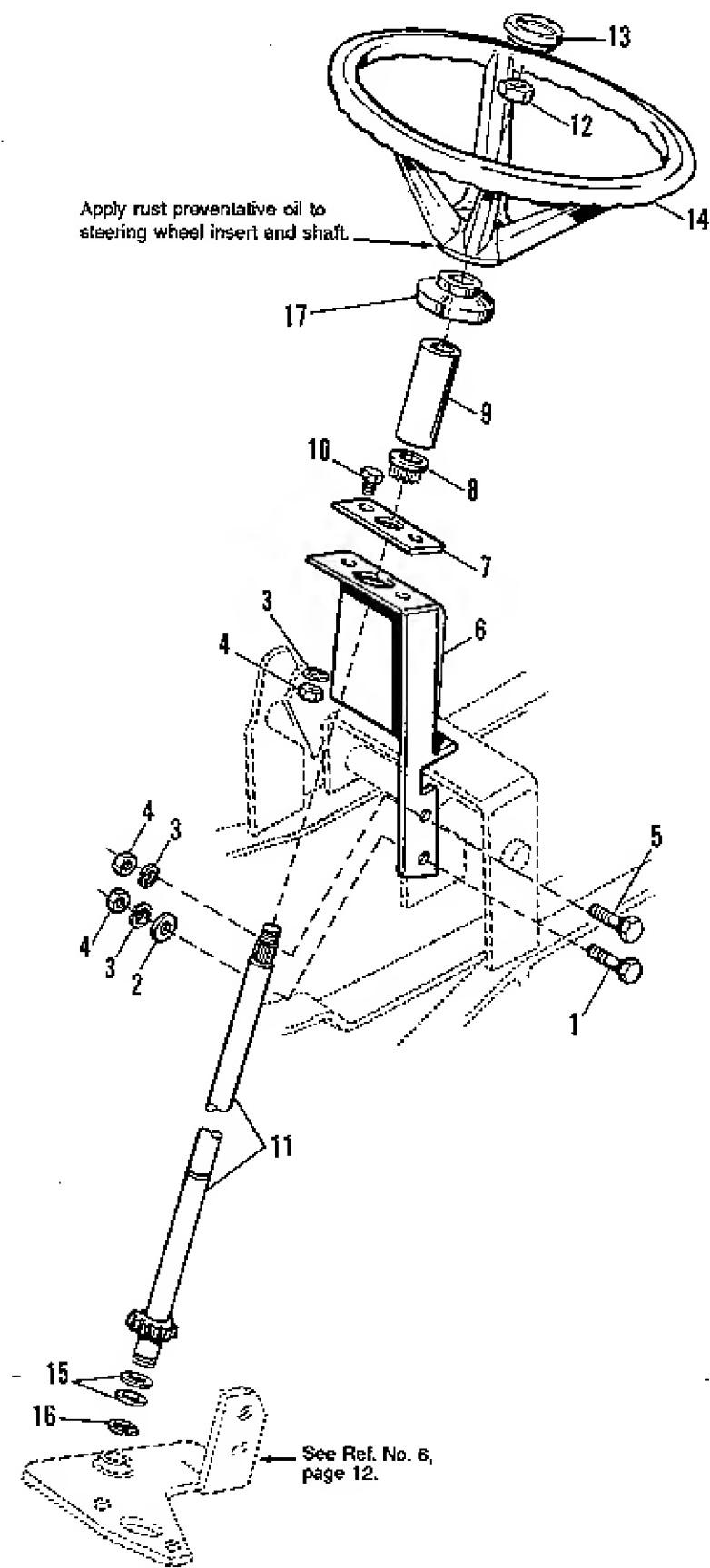
Ref. No.	Part No.	Qty.	Description
1	1921977	2	CAPSCREW, Hex Hd., 5/16-18 x 1-1/4
2	1676002	1	SHAFT & GEAR ASSY. (76 Teeth)
3	1916950	6	NUT, Hex, 3/8-16
4	1916965	13	LOCKWASHER, 3/8
5	1917642	1	WASHER, Plain, 3/8 x 7/8 x 5/64
6	1677028	1	PLATE ASSY, Gear w/Bushings (Incl. Qty. 2 of Ref. No.9)
7	1921969	1	CAPSCREW, Hex Hd., 3/8-16 x 1-1/2
8	921133	3	FITTING, Lub.
9	1676018	2	BUSHING
10		1	CASTING, Steering (Not Serviced Separately) (See Ref. No. 11)
11	1676022	1	HOUSING, Steering (Incl. of Ref. Nos. 9 (Qty. 2) & 10)
12	1921210	4	CAPSCREW, Hex Hd., 3/8-16 x 1
13		1	TUBE, Bushing (Not Serviced Separately) (See Ref. No. 15)
14	1676726	2	BUSHING
15	1676028	1	TUBE ASSY., Bearing (Incl. Ref. Nos. 13 & 14, Qty. 2)
16	1676007	1	SHAFT, Steering Arm
17	1676455	1	BRACKET, Support
18	1921966	2	CAPSCREW, Hex Hd., 3/8-16 x 7/8
19	1921971	2	CAPSCREW, Hex Hd., 3/8-16 x 1-3/4
20	1678486	1	CLAMP, Bearing Tube
21	932577	2	RING, Retaining
22	1675991	1	GEAR, Bevel (14 Teeth)
23	1960230	1	WASHER, 1 x 1-3/8 x 1/64
24	1919394	2	WASHER, 1 x 1-5/8 x 1/64
25	1930644	2	LOCKNUT, Hex, Flange, 1/2-13
26	1676004	1	ARM ASSY., Steering, Splined
27	1922134	1	NUT, Hex, Centerlock, 1/2-13
28	1960206	3	WASHER, Plain, 17/32 x 3/4 x 5/64
29	1920328	1	CAPSCREW, Hex Hd., 1/2-13 x 1-1/2
30	1678991	1	BALL JOINT
31	1930624	1	NUT, Hex, Jam, 1/2-20
32	1678992	1	DRAG LINK
33	1919262	2	NUT, Hex, Jam, 1/2-20
34	1679433	1	BALL JOINT
35	1930245	1	NUT, Hex, Centerlock, 1/2-20
36	1928721	2	SETSCREW, Sq. Hd., 5/16-18 x 1/2
37	905856	2	KEY, Parallel, 1/4 x 1/4 x 1-1/2
38	1674128	1	ARM ASSY., Spindle
39	927732	1	RING, Retaining, 3/4
40	1675992	1	PINION, Bevel, (14 Teeth)
41	960231	2	WASHER, Thrust, 49/64 x 1-3/8 x 1/16
42	1676725	1	WASHER, Curved
43	1930651	2	LOCKNUT, Hex, 3/8-16
44	1923220	2	BOLT, Carriage, 3/8-16 x 1-1/4
45	- 1923362	2	NUT, Hex Centerlock, 5/16-18
46	1669575	2	SPACER, Brake
47	1916966	1	LOCKWASHER, 1/2
48	1676435	1	WASHER, Hardened, 1/2 x 1-1/4 x 3/16



Ref. No.	Part No.	Qty.	Description
1	1920415	1	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
2	1917642	1	WASHER, Plain, 5/16
3	1916965	4	LOCKWASHER, 3/8
4	1916950	4	NUT, Hex, 3/8-16
5	1921210	1	CAPSCREW, Hex Hd., 3/8-16 x 1
6	1675995	1	BRACKET ASSY., Steering
7	1675998	1	PLATE, Steering
8	157077	1	BUSHING, Steering
9	1677936	1	TUBE, Steering Hub
10	1921965	2	CAPSCREW, Hex Hd., 3/8-16 x 3/4
11	927732	2	RING, RETAINING, 3/8
12	1676010	1	SHAFT, Pinion & Coupling, Lower Steering
13	1917372	4	NUT, Hex, 5/16-18
14	1917356	4	LOCKWASHER, 5/16
15	1919361	8	WASHER, Plain, 5/16
16	1676014	1	DISC
17	1921333	4	CAPSCREW, Hex Hd., 5/16-18 x 1
18	1677938	1	SHAFT & COUPLING ASSY.
19	1922014	1	NUT, Hex, Jam, 5/8-18
20	1657017	1	CAP, Steering Wheel
21	1676468	1	WHEEL ASSY., Steering
22	1676018	2	BUSHING
23	960231	2	WASHER, Thrust, 49/64 x 1-3/8 x 1/16
24	1676418	1	BOOT, Steering Stem

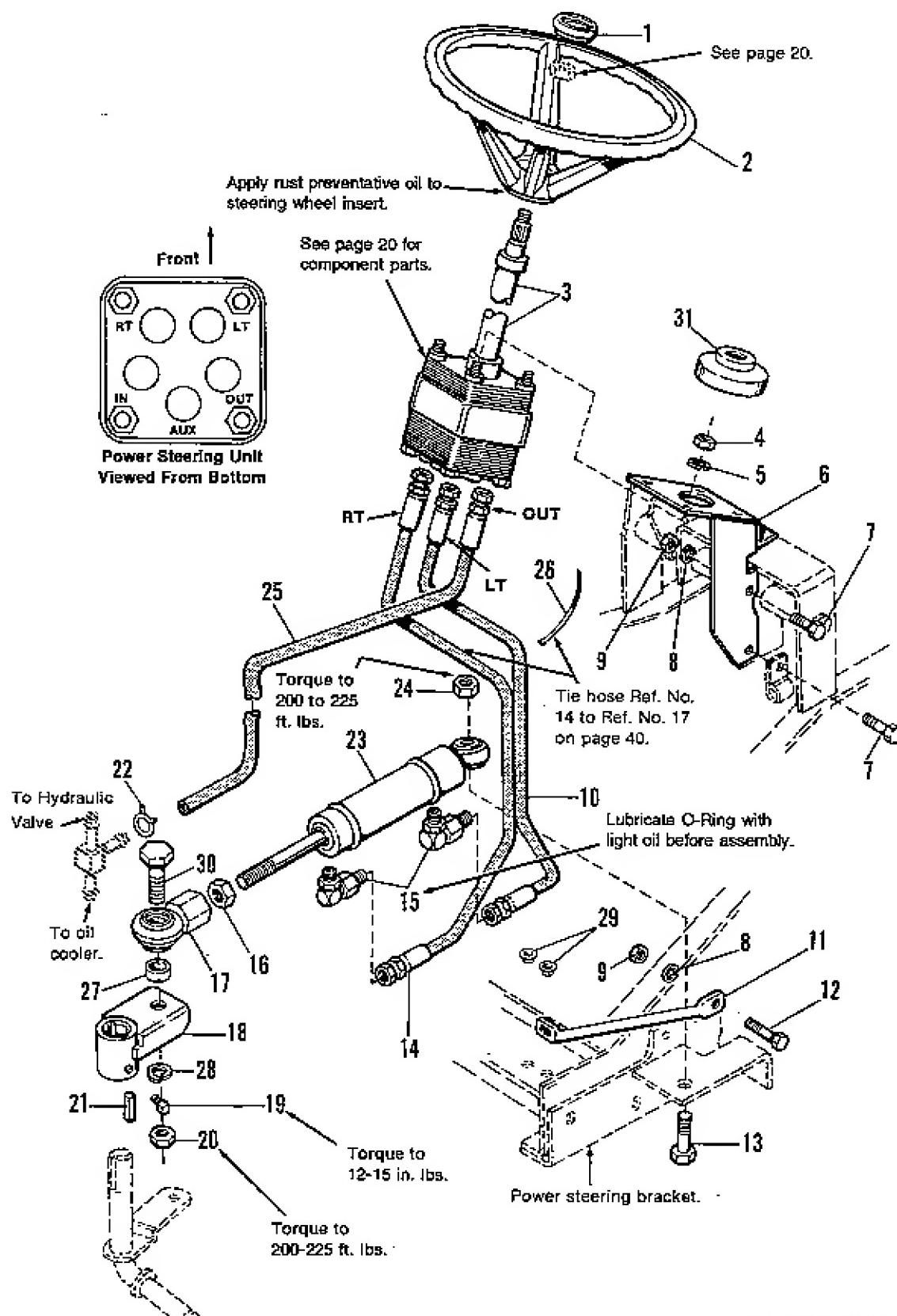


Ref. No.	Part No.	Qty.	Description
1	1921977	2	CAPSCREW, Hex Hd., 5/16-18 x 1-1/4
2	1676002	1	SHAFT & GEAR ASSY. (76 Teeth)
3	1916950	5	NUT, Hex, 3/8-16
4	1916965	7	LOCKWASHER, 3/8
5	1924940	1	WASHER, Plain, 13/32
6	1700840	1	PLATE ASSY, Gear w/Bushing (Incl. Ref. No. 18)
7	1921969	1	CAPSCREW, Hex Hd., 3/8-16 x 1-1/2
8	921133	3	FITTING, Lube
9	1676018	2	BUSHING
10		1	CASTING, Steering (Not Serviced Separately) (See Ref. No. 11)
11	1676022	1	HOUSING, Steering (Incl. Qty. 2 of Ref. Nos. 9 & 10)
12	1921210	6	CAPSCREW, Hex Hd., 3/8-16 x 1
13		1	TUBE, Bushing (Not Serviced Separately) (See Ref. No. 15)
14	1676726	2	BUSHING
15	1676028	1	TUBE ASSY., Bearing (Incl. Ref. Nos. 13 & 14, Qty. 2)
16	1676007	1	SHAFT, Steering Arm
17	1676455	1	BRACKET, Support
18	1700839	1	BUSHING, Plate Assy., Gear
19	1921971	2	CAPSCREW, Hex Hd., 3/8-16 x 1-3/4
20	1678486	1	CLAMP, Bearing Tube
21	932577	2	RING, Retaining
22	1675991	1	GEAR, Bevel (14 Teeth)
23	173668	1	WASHER, 1 x 1-3/8 x 1/16
24	1919394	2	WASHER, 1 x 1-5/8 x 1/64
25	1930644	2	LOCKNUT, Hex, Flange, 1/2-13
26	1676004	1	ARM ASSY., Steering, Splined
27	1924650	1	NUT, Hex, Jam Centerlock, 1/2-13
28	1960206	3	WASHER, Plain, 17/32 x 3/4 x 5/64
29	1920328	1	CAPSCREW, Hex Hd., 1/2-13 x 1-1/2
30	1678991	1	BALL JOINT
31	1930624	1	NUT, Hex, Jam, 1/2-20
32	1678992	1	DRAG LINK
33	1919262	1	NUT, Hex, Jam, 1/2-20
34	1679433	1	BALL JOINT
35	1930245	1	NUT, Hex, Centerlock, 1/2-20
36	1928721	2	SETSCREW, Sq. Hd., 5/16-18 x 1/2
37	905856	2	KEY, Parallel, 1/4 x 1/4 x 1-1/2
38	1674128	1	ARM ASSY., Spindle
39	927732	1	RING, Retaining, 3/4
40	1675992	1	PINION, Bevel, (14 Teeth)
41	168111	1	WASHER, Thrust, 1-3/8 O.D.
42	1676725	1	WASHER, Spring
43	1930651	2	LOCKNUT, Hex, 3/8-16
44	1923220	2	BOLT, Carriage, 3/8-16 x 1-1/4
45	1923362	2	NUT, Hex Centerlock, 5/16-18
46	1669575	2	SPACER, Brake
47	1916966	1	LOCKWASHER, 1/2
48	1676435	1	WASHER, Hardened, 1/2 x 1-1/4 x 3/16
49	927310	1	CLAMP, Insulated



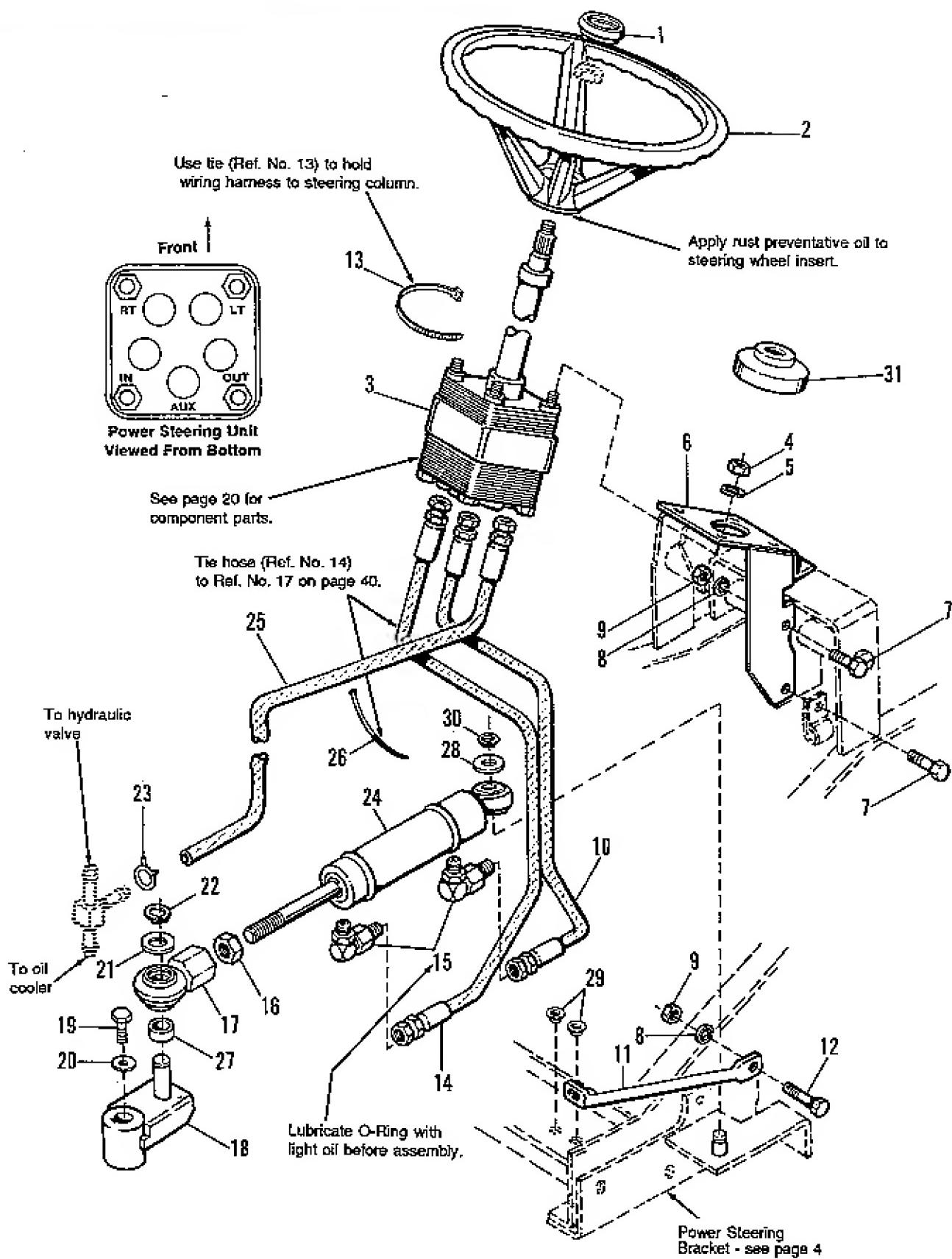
NOTE: Use standard hardware torque spec. chart unless otherwise noted.

Ref. No.	Part No.	Qty.	Description
1	1920415	1	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
2	1924940	1	WASHER, Plain, 13/32
3	1916965	4	LOCKWASHER, 3/8
4	1916950	4	NUT, Hex, 3/8-16
5	1921210	1	CAPSCREW, Hex Hd., 3/8-16 x 1
6	1675995	1	BRACKET ASSY., Steering
7	1675998	1	PLATE, Steering
8	157077	1	BUSHING, Steering
9	1677936	1	TUBE, Steering Hub
10	1921965	2	CAPSCREW, Hex Hd., 5/16-18 x 1
11	1700835	1	SHAFT & COUPLING ASSY.
12	1922014	1	NUT, Hex, Jam, 5/8-18
13	1657017	1	CAP, Steering Wheel
14	1676468	1	WHEEL ASSY., Steering
15	168111	2	WASHER, Thrust, 49/64 x 1-3/8 x 1/16
16	927732	2	RING, Retaining 3/8
17	1676418	1	BOOT, Steering Stem

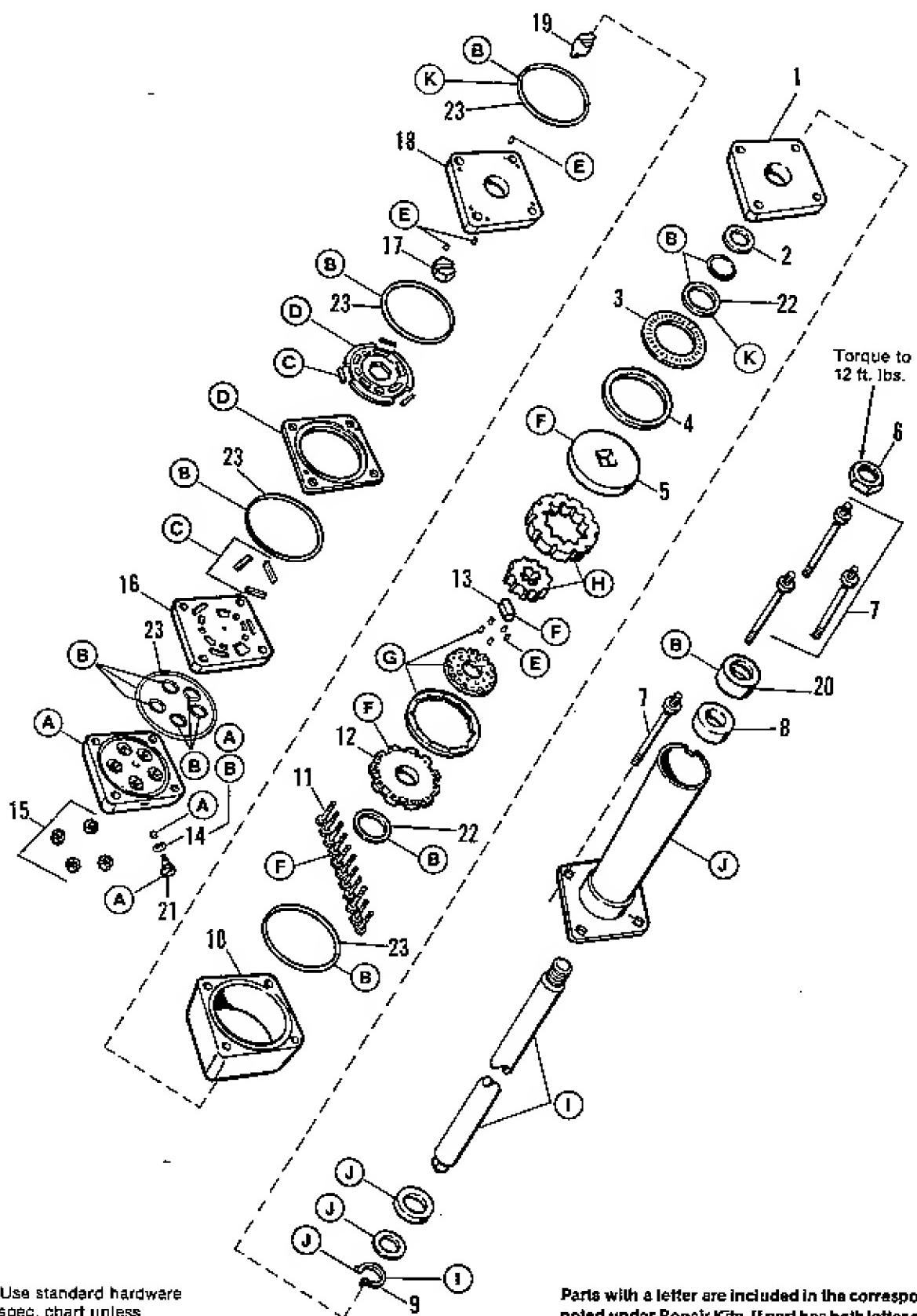


NOTE: Use standard hardware torque spec. chart unless otherwise noted.

Ref. No.	Part No.	Qty.	Description
1	1657017	1	CAP, Steering Wheel
2	1676468	1	WHEEL ASSY., Steering
3	1673686	1	STEERING UNIT, Hydrostatic (See page 20 for components.)
4	1920263	4	NUT, Hex, 5/16-24
5	1917356	4	LOCKWASHER, 5/16
6	1674742	1	SUPPORT ASSY., Steering Valve
7	1921210	2	CAPSCREW, Hex Hd., 3/8-16 x 1, Gr. 5
8	1916965	4	LOCKWASHER, 3/8
9	1916950	4	NUT, Hex, 3/8-16
10	1611788	1	HOSE ASSY., Hyd. (Valve to Cyl.)
11	1677159	1	BRACE, Cylinder
12	1921969	2	CAPSCREW, Hex Hd., 3/8-16 x 1-1/2, Gr. 5
13	1923881	1	CAPSCREW, Hex Hd., 5/8-11 x 2, Gr. 8
14	1611787	1	HOSE ASSY., Hyd. (Valve to Cyl.)
15	922523	2	FITTING, Hyd., 9/16-18 x 9/16-18 - 90
16	1922015	1	NUT, Hex, 3/4-16
17	1685923	1	BALL JOINT ASSY. (Incl. Ref. Nos. 20, 27, 28 & 30)
18	1679485	1	ARM ASSY., Steering
19	1928721	2	SETSCREW, Sq. Hd., 5/16-18 x 1/2
20	1960270	1	NUT, Hex, Lock, 3/4-16
21	905856	2	KEY, Parallel, 1/4 x 1/4 x 1-1/2
22	933098	1	HOSE CLAMP, SAE #10
23	1706655	1	CYLINDER, Power Steering
24	1923353	1	LOCKNUT, Hex, 5/8-11
25	1675602	1	HOSE ASSY., Hyd., (Valve to Cooler)
26	925094	1	TIE, Self-Locking
27	1679556	1	SPACER
28	1919332	1	LOCKWASHER, 3/4
29	917954	2	PLUG, Plastic
30	1960317	1	CAPSCREW, Hex Hd., 3/4-16 x 2-3/4, Gr. 5
31	1676418	1	BOOT, Steering Arm



Ref. No.	Part No.	Qty.	Description
1	1657017	1	CAP, Steering Wheel
2	1676468	1	WHEEL ASSY., Steering
3	1673686	1	STEERING UNIT, Hydrostatic (See page 20 for components.)
4	1920263	4	NUT, Hex, 5/16-24
5	1917356	4	LOCKWASHER, 5/16
6	1674742	1	SUPPORT ASSY., Steering Valve
7	1921210	2	CAPSCREW, Hex Hd., 3/8-16 x 1, Gr. 5
8	1916965	4	LOCKWASHER, 3/8
9	1916950	4	NUT, Hex, 3/8-16
10	1611788	1	HOSE ASSY., Hyd. (Valve to Cyl.)
11	1677159	1	BRACE, Cylinder
12	1921969	1	CAPSCREW, Hex Hd., 3/8-16 x 1-1/2, Gr. 5
13	1701011	1	TIE
14	1611787	1	HOSE ASSY., Hyd. (Valve to Cyl.)
15	922523	2	FITTING, Hyd., 9/16-18 x 9/16-18 - 90 degree
16	1922015	1	NUT, Hex, 3/4-16
17	1605323	1	BALL JOINT ASSY. (Inc. Ref. Nos. 20, 27, 28 & 30)
18	1704292	1	ARM ASSY., Steering
19	1921966	2	CAPSCREW, Hex Hd., 3/8-16 x 7/8
20	1960009	1	WASHER, 13/32 x 1 1/4 x 3/16
21	1681111	1	WASHER, 3/4 x 1 3/8
22	927732	1	RING, Retaining, 3/4
23	933098	1	HOSE CLAMP
24	1706655	1	CYLINDER, Power Steering
25	1675602	1	HOSE ASSY., Hyd., (Valve to Cooler)
26	925094	1	TIE, Self-Locking
27	1679556	1	SPACER
28	1671937	1	WASHER, 5/8 x 1
29	917954	2	PLUG, Plastic
30	927103	1	RING, Retaining, 5/8
31	1676418	1	BOOT, Steering Arm



NOTE: Use standard hardware torque spec. chart unless otherwise noted.

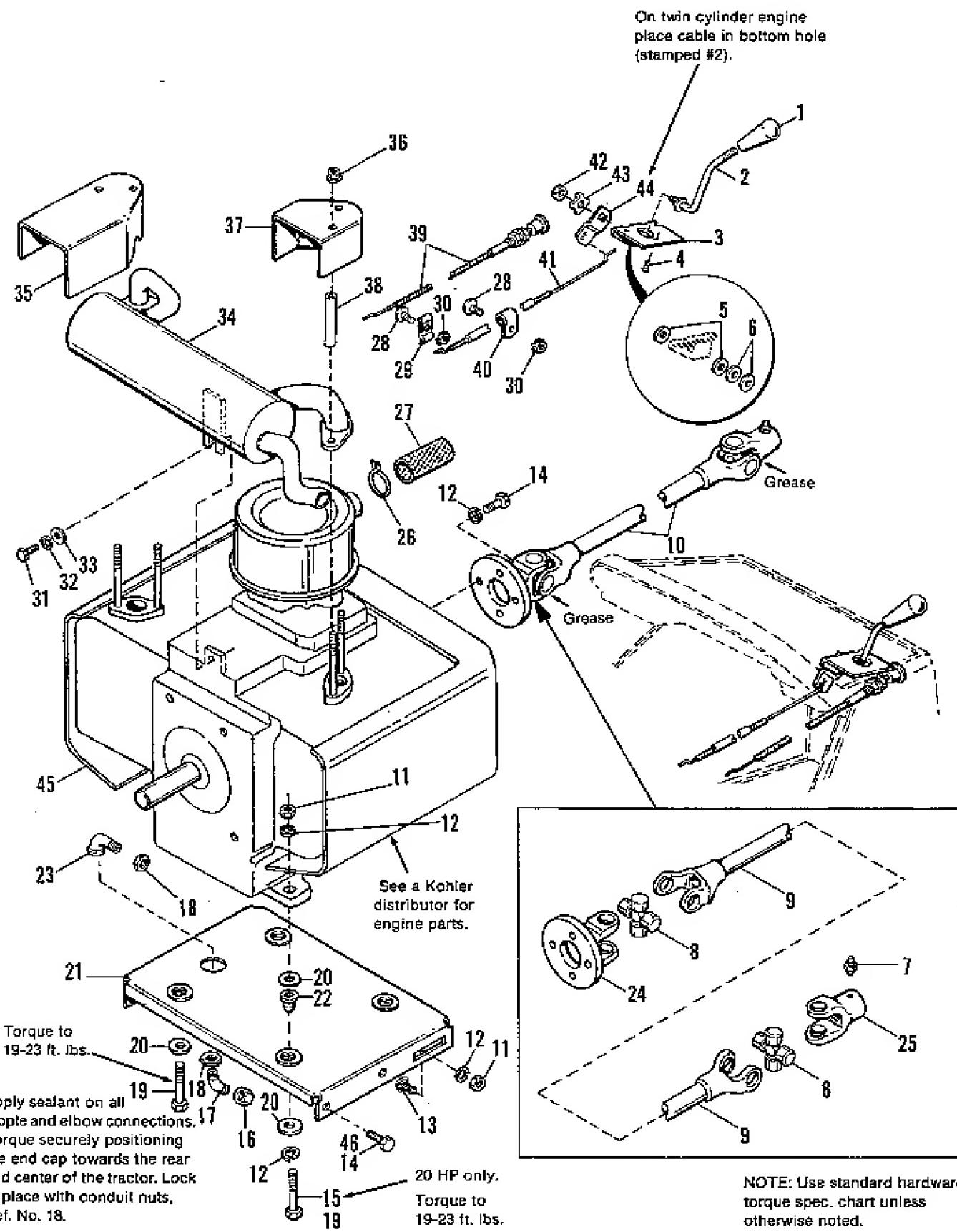
Parts with a letter are included in the corresponding kit as noted under Repair Kits. If part has both letter and number, it is available individually or as part of kit.

Ref. No.	Part No.	Qty.	Description
1	1679026	1	PLATE, Upper Cover
2	1679027	1	SPACER, Seal
3	1679029	1	BEARING, Thrust
4	1679028	1	SPACER
5	1679031	1	PLATE, Drive
6	1679046	1	NUT, Hex, 5/8-18
7	1679025	4	BOLT, Special
8	1679054	1	BEARING
9	1679024	1	RING, Retaining
10	1679036	1	RING, Metering
11	1679032	11	CAPSCREW, Hex Hd.
12	1679033	1	COVER, Commutator
13	1679145	1	SPACER
14	1679043	1	"O" RING
15	1679044	4	LOCKNUT, Hex, 5/16-24
16	1679144	1	MANIFOLD, Port
17	1679040	1	DRIVE ASSY., Hex
18	1679037	1	MANIFOLD, Isolation
19	1679038	1	LINK, Drive
20	1679363	1	SEAL, Dust
21	1679364	1	PLUG
22	1707395	2	SEAL
23	1707394	5	SEAL

Repair Kits

A	1679042	PORT COVER & CHECK VALVE ASSY.
B	1705999	SEAL KIT
C	1679041	SPRING KIT
D	1679039	VALVE & RING KIT
E	1679047	NEEDLE ROLLER KIT
F	1679030	METERING ASSY. KIT
G	1679034	COMM. & RING ASSY. KIT
H	1679035	ROTOR ASSY. KIT
I	1679045	INPUT SHAFT ASSY. KIT
J	1679023	UPPER COVER ASSY. KIT
K	1685448	SEAL KIT (Contains Qty. 1 of Ref. No. 23 and Qty. 1 of Ref No. 22)

Note: Seal Kit (Ref. No. K) is for top seal replacement in power steering unit - do not disassemble the complete unit for this repair.



Ref. No.	Part No.	Qty.	Description
1	172038	1	KNOB, Tapered, 3/8-16
2	1675873	1	HANDLE, Throttle
3	1704335	1	BRACKET, Mounting, Throttle Control
4	1960256	3	SCREW, Hex Hd., Slotted, Plastite, 1/4-10 x 5/8
5	960171	2	WASHER, Nylon, 41/64" I.D. x 1" O.D. x 1/32"
6	101025	2	WASHER, Plain, 5/8" ID x 1" OD x 1/64"
7	912808	1	FITTING, Lube
8	1678805	2	JOURNAL ASSY. (Incl. E-Clips & Grease Fittings)
9	1678999	1	YOKE & TUBE ASSY.
10	1674126	1	DRIVE SHAFT ASSY. (Incl. Ref. Nos. 7, 8, 9, 24 & 25)
11	1916950	7	NUT, Hex, 3/8-18 (Qty. 6 on 20 HP)
12	1916965	11	LOCKWASHER, 3/8
13	1922785	3	BOLT, Carriage, 3/8-16 x 7/8
14	1921210	4	CAPSCREW, Hex Hd., 3/8-16 x 1 (Qty. 5 on 1691017, 1691018)
15	1921971	1	CAPSCREW, Hex Hd., 3/8-16 x 1-3/4 (20 HP only)
16	1667346	1	CAP, Hex, 3/8-18
17	1678499	1	DRAIN, Oil
18	1932849	2	NUT, Conduit, 3/8-18
19	1923701	4	CAPSCREW, Hex Hd., 3/8-16 x 2 (Qty. of 3 on 20 HP)
20	1924356	8	WASHER, Plain, 13/32 x 1-1/2 x 1/8 Thick
21	1674385	1	PLATE ASSY., Engine Base
22	1674264	4	MOUNT, Engine
23	1673453	1	FITTING, 90, 3/8
24	1678982	1	YOKE & FLANGE ASSY.
25	1701915	1	YOKE
26	1677121	1	CLAMP, Self Tightening
27	1677042	1	INTAKE, Air
28	1930531	2	SCREW, Truss Hd. (Phillips), #10-32 x 1/2
29	1677213	1	CLIP, Double
30	1928919	2	NUT & WASHER ASSY., #10-32 (KEPS)
31	1924009	1	CAPSCREW, Hex Hd., 1/4-20 x 7/8
32	1916964	1	LOCKWASHER, 1/4
33	1921319	1	WASHER, Plain, 1/4
34	1685359	1	MUFFLER, Exhaust (1691017, 1691018 only)
	1701288	1	MUFFLER, Exhaust (all except 1691017, 1691018)
35	1666943	1	COVER, Manifold, R.H.
36	1935048	4	NUT, Flange, Lock, 5/16-18
37	1666942	1	COVER, Manifold, L.H.
38	1960235	4	SPACER, Manifold Cover
39	1679875	1	CONTROL, Choke w/Knob
40	158475	1	CLIP, Bowden, Wire, 3/16
41	1668268	1	CABLE, Throttle
42	1930651	1	LOCKNUT, Hex, 3/8-16
43	1930665	1	LOCKWASHER, Dished, 3/8
44	1668703	1	ARM, Throttle
45		1	ENGINE, 18 HP Kohler
		1	ENGINE, 20 HP Kohler
46	1928653	1	CAPSCREW, Hex, Taprite, 3/8-16 x 1 1/4 (1691380 thru 1691953)

CHOKE ADJUSTMENT

Hold choke knob on dash in and choke lever on carburetor open while tightening cable clamp on engine.

THROTTLE ADJUSTMENT

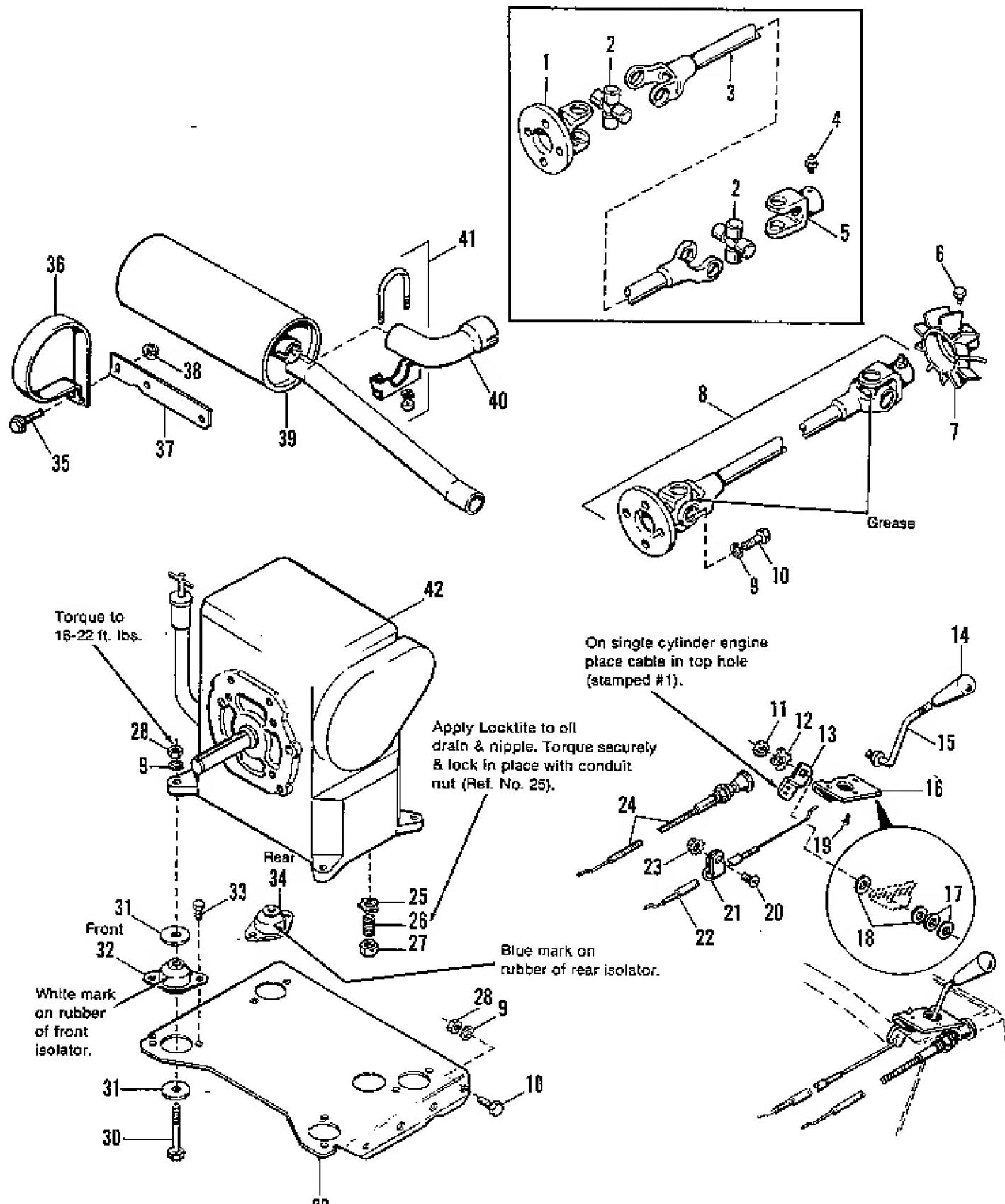
- On twin cylinder models, insert throttle cable wire into bottom hole of speed control lever on carburetor.
- Place throttle control on dash in wide open throttle position by pushing lever against stop and then backing off by 1/32 to 1/16". Rotate engine speed control lever on carburetor against the high speed stop. Then secure throttle

cable in place with engine throttle cable clamp.

- Move throttle control lever through full range and back to wide open throttle position to check adjustment.

THROTTLE LEVER FRICTION ADJUSTMENT

- Assemble throttle lever assembly. (See assembled view.)
- Adjust nut (Ref. No. 42) to obtain between 6 to 12 lbs. force required to rotate throttle handle (Ref. No. 2) when force is applied at knob (Ref. No. 1) in direction of rotation and perpendicular to throttle handle.



Ref. No.	Part No.	Qty.	Description
1	1678982	1	YOKE
2	1678805	2	JOURNAL ASSY.
3	1679877	1	SECTION, Cover
4	912808	1	FITTING, Lube
5	1701915	1	YOKE
6	1930416	2	SCREW, Taprite, #10-32 x 3/8
7	1701912	1	FAN, Hydro Pump
8	1702064	1	DRIVESHAFT ASSY.
9	1916965	12	LOCKWASHER, Spring, 3/8
10	1921210	8	CAPSCREW, Hex Hd., 3/8-16 x 1
11	1930651	1	LOCK NUT, Hex, 3/8-16
12	1930665	1	LOCKWASHER, Dished Type, 3/8
13	1666703	1	ARM, Throttle
14	172038	1	KNOB, Throttle, 3/8-16 UNC
15	1675873	1	HANDLE, Throttle
16	1704335	1	BRACKET, Mtg., Throttle Control
17	101025	2	WASHER, Plain, 5/8 I.D. x 1" O.D.
18	960171	2	WASHER, Nylon, 41/64 I.D. x 1" O.D. x 1/32
19	1960256	3	SCREW, Slotted Hex Hd., Plastite 1/4-20 x 5/8
20	1930531	1	SCREW, Phillips, Truss Hd. #10-32 x 1/2
21	158475	1	CLIP, Bowden Wire
22	1666268	1	CABLE, Throttle
23	1928919	2	NUT & WASHER ASSY., Keps #10-32
24	1679875	1	CONTROL, Choke
25	1932849	1	NUT, Conduit, 3/8-18
26	901489	1	NIPPLE, Pipe, 3/8 x 1
27	1667346	1	CAP, Hex, 3/8-18 NPT
28	1916950	8	NUT, Hex, 3/8-16
29	1701511	1	PLATE, Engine Base
30	1921973	4	CAPSCREW, Hex. Hd., 3/8-16 x 2-3/4
31	1960334	8	WASHER, Plain, 13/32 I.D., 1-27/32 O.D.
32	1701550	2	ISOLATOR, Engine Mount (Front)
33	1924866	3	SCREW, Taptite, 5/16-18 x 1/2
34	1701549	2	ISOLATOR, Engine Mount, (Rear)
35	1933689	1	CAPSCREW, Hex Whiz, Flange, 5/16-18 x 1-1/2
36	1666803	1	CLAMP, Muffler
37	1679790	1	STRAP, Mtg., Muffler
38	1927557	1	NUT, Hex Flange, 5/16-18
39	1700722	1	MUFFLER, Exhaust
40	1666120	1	ELBOW, Exhaust
41	935040	2	CLAMP, Exhaust
42		1	ENGINE, 14 HP Kohler
		1	ENGINE, 16 HP Kohler

CHOKE ADJUSTMENT

Hold choke knob on dash in and choke lever on carburetor open while tightening cable clamp on engine.

THROTTLE ADJUSTMENT

- On single cylinder models, insert cable wire into top hole of speed control lever on carburetor.
- Place throttle control on dash in wide open throttle position by pushing lever against stop and then backing off by 1/32" to 1/16". Rotate engine speed control lever on carburetor against

the high speed stop. Then secure throttle cable in place with engine throttle cable clamp.

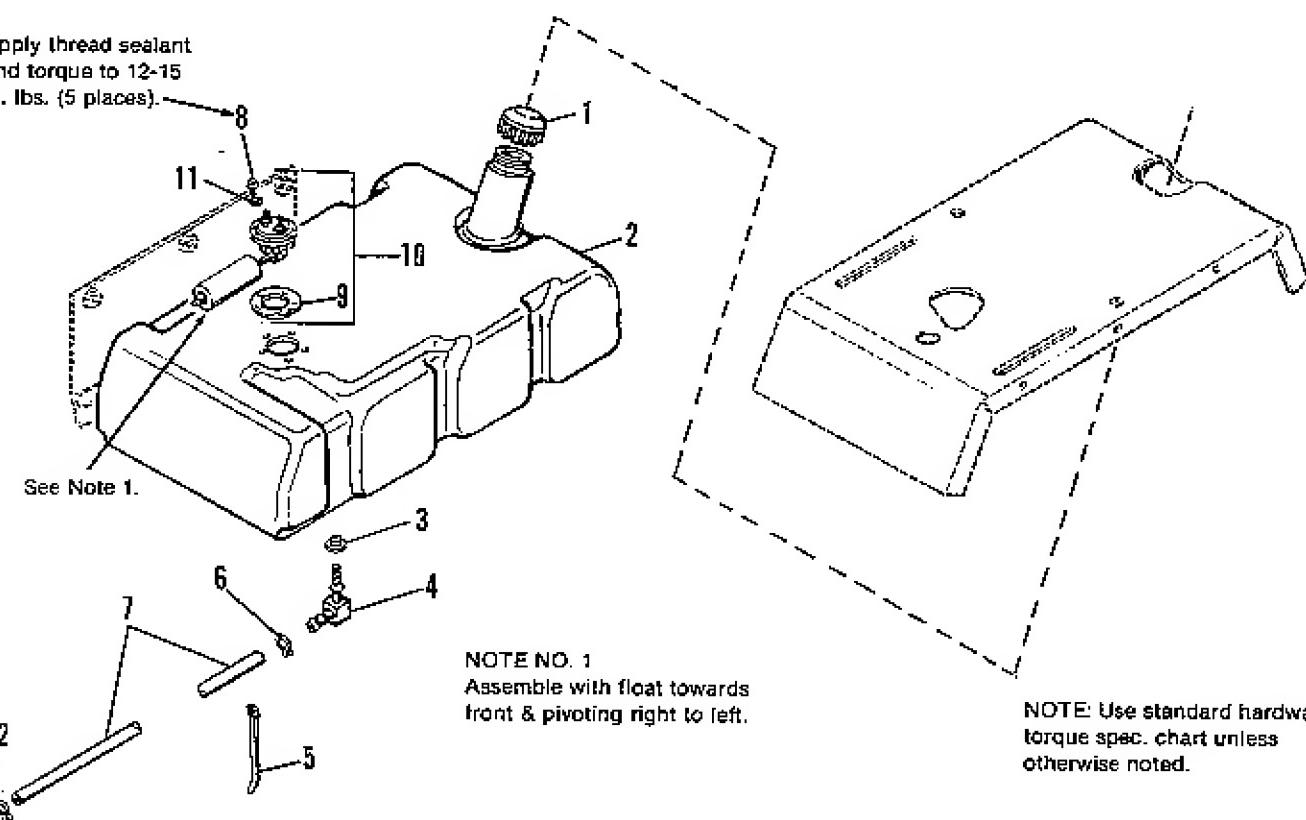
- Move throttle control lever through full range and back to wide open throttle position to check adjustment.

THROTTLE LEVER FRICTION ADJUSTMENT

- Assemble throttle lever assembly. (See assembled view.)
- Adjust nut (Ref. No. 42) to obtain between 6 to 12 lbs. force required to rotate throttle handle (Ref. No. 2) when force is applied at knob (Ref. No. 1) in direction of rotation and perpendicular to throttle handle.

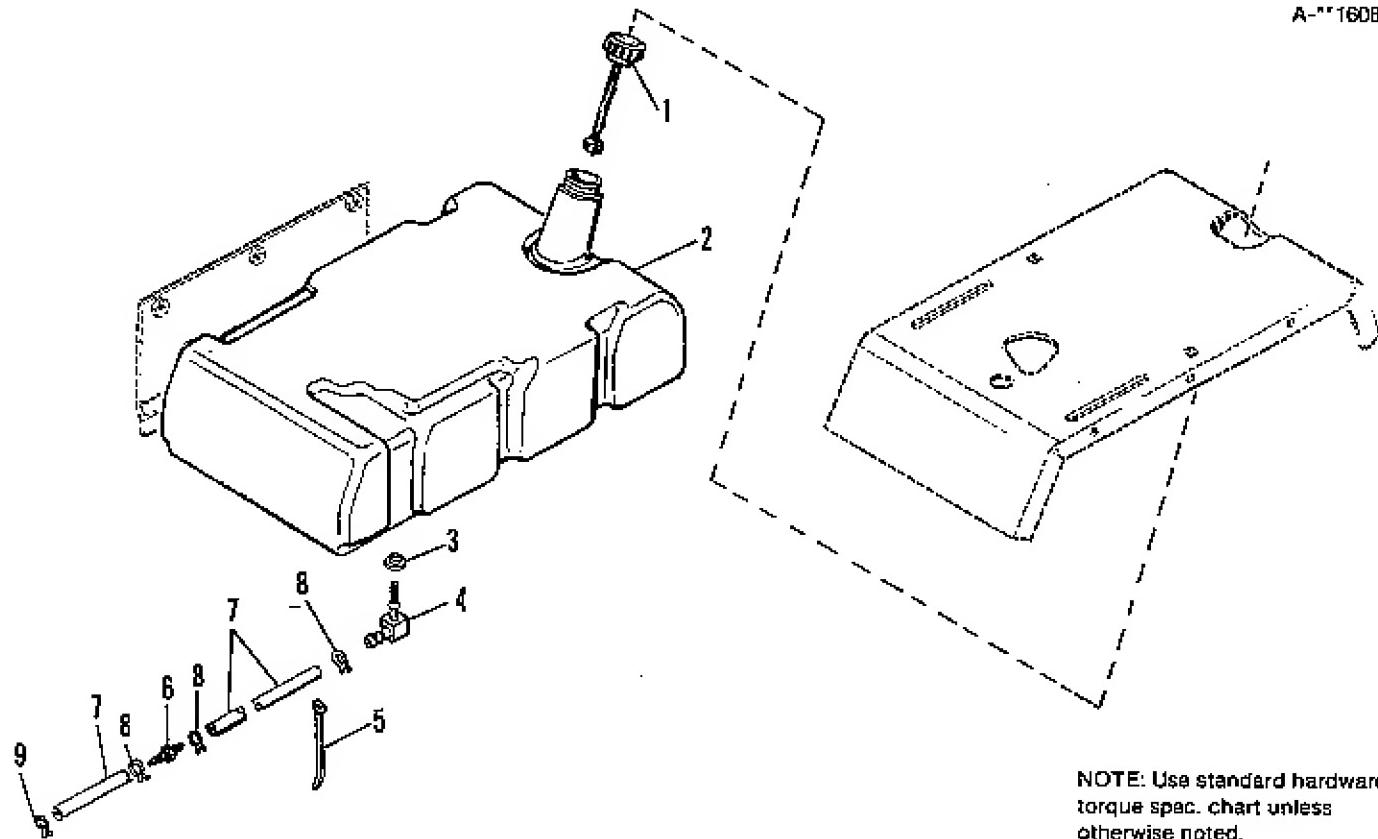
A-**160B

Apply thread sealant
and torque to 12-15
in. lbs. (5 places).



Fuel Tank Group

A-**160B



Mfg. No. 1691017, 1691018, 1691380, 1691381, 1691528, 1691710, 1691924,
1691926, 1691928, 1691953

Fuel Tank Group (18 & 20 HP)

Simplicity

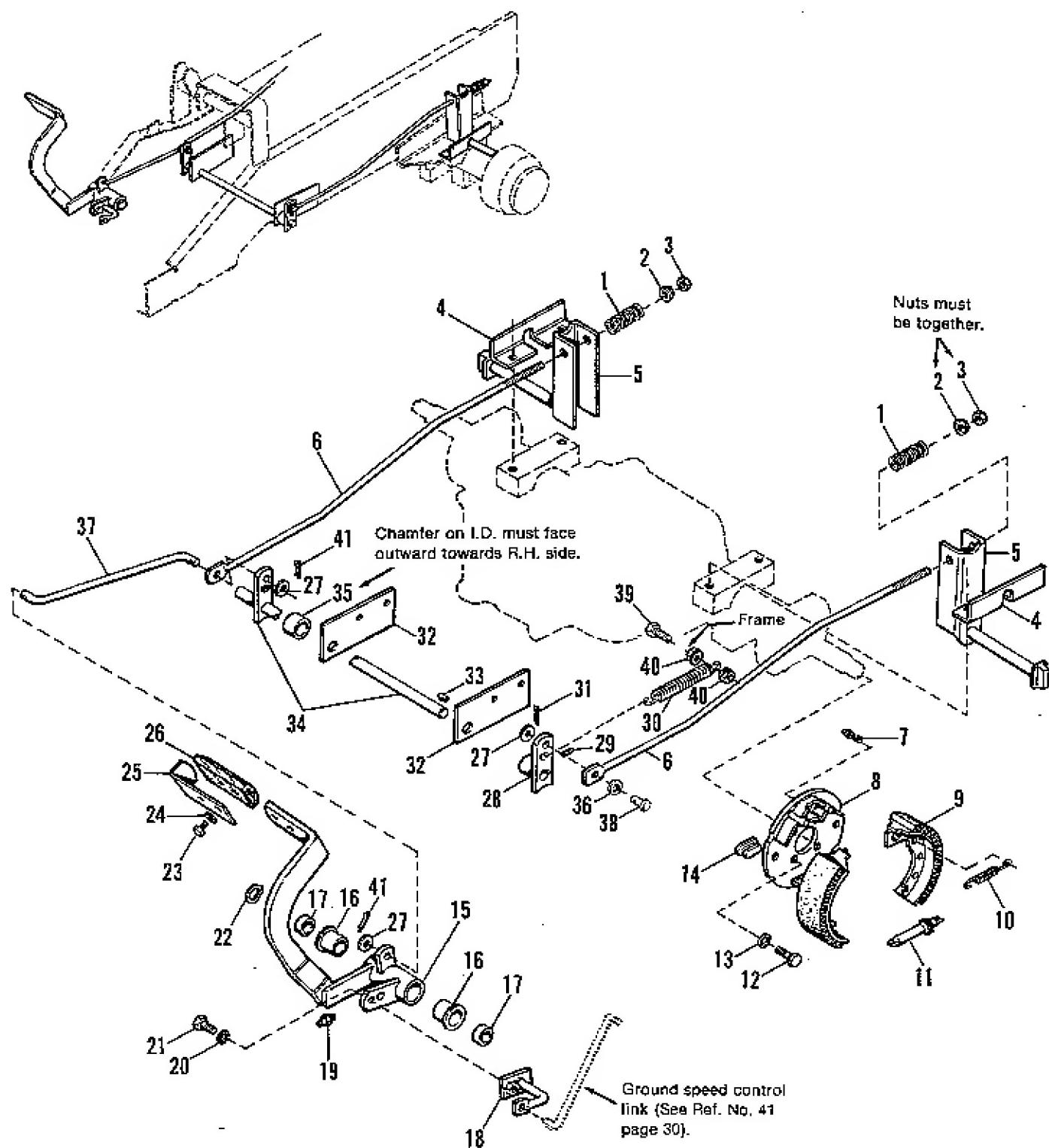
Ref. No.	Part No.	Qty.	Description
1	1678045	1	CAP, Gas, Vented
2	1685304	1	*FUEL TANK & FITTINGS (Incl. Ref. Nos. 3, 4)
3	1654930	1	BUSHING
4	1674792	1	ELBOW, with Screen
5	932747	1	TIE, Self-Locking
6	960265	1	CLAMP, Hose
7	1676861	1	HOSE, Fuel, 1/4 I.D. x 45-1/2 LG.
8	1930531	5	SCREW, Truss Hd., #10-32 x 1/2
9	1685303	1	GASKET, Fuel Sender
10	1685302	1	SENDER, Fuel Level
11	1917365	5	LOCKWASHER
12	1960112	1	CLAMP, Hose

*Order Part No. 1678220, Fuel Tank & Sender, to receive Ref. Nos. 2, 6, 7, 8, 9, 10 & 11.

Mfg. No. 1691250, 1691357

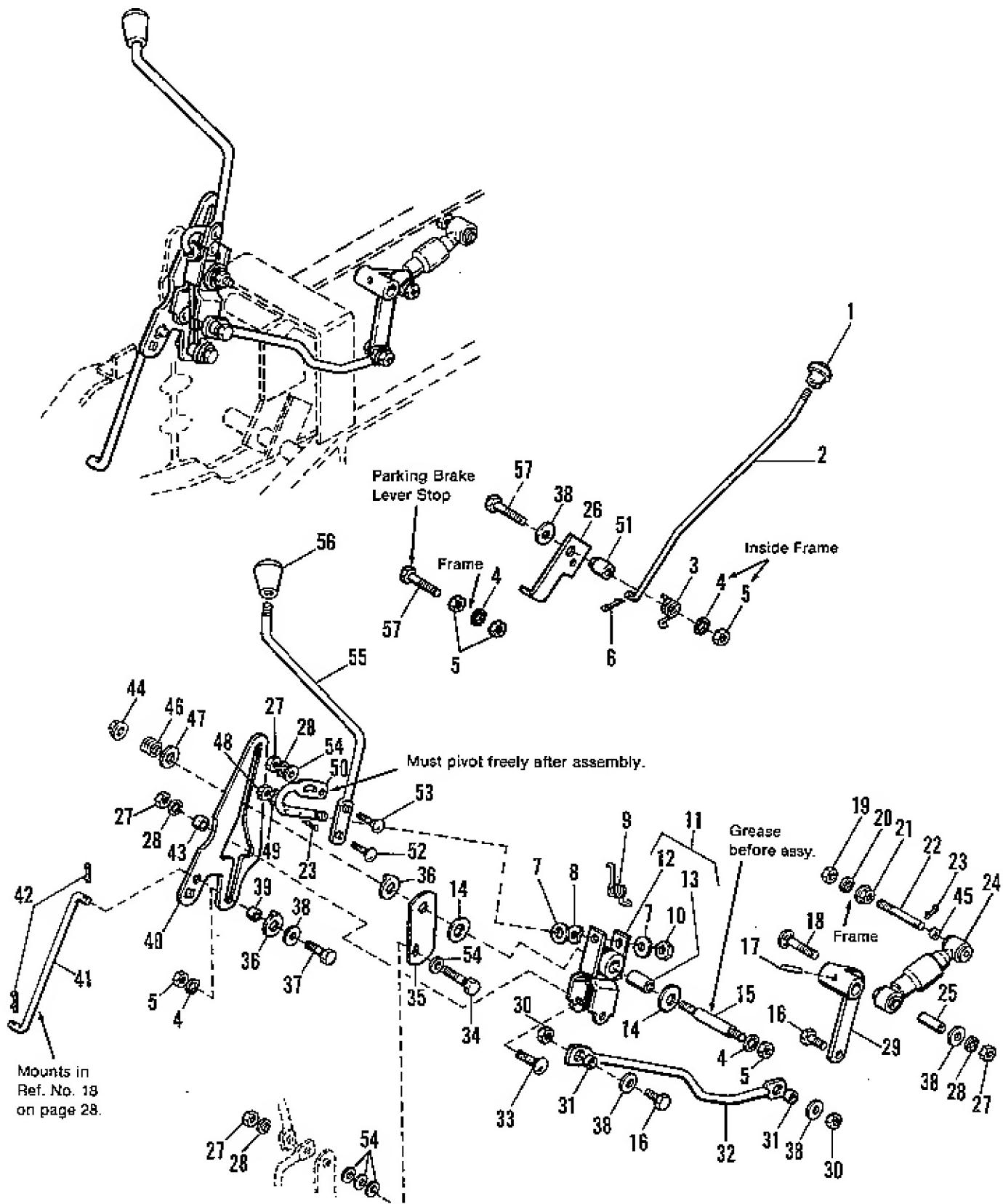
Fuel Tank Group (14 & 16 HP)

Ref. No.	Part No.	Qty.	Description
1	1701192	1	CAP, Gas, w/Gauge
2	1701193	1	FUEL TANK & FITTINGS (Incl. Ref. Nos. 3 & 4)
3	1654930	1	BUSHING
4	1674792	1	ELBOW
5	932747	1	TIE, Self-Locking
6	1702229	1	MENDER, Hose
7	1700923	1	HOSE, Fuel, 1/4 I.D. x 50-1/2 LG.
8	960265	3	CLAMP, Hose
9	1960112	1	CLAMP, Hose



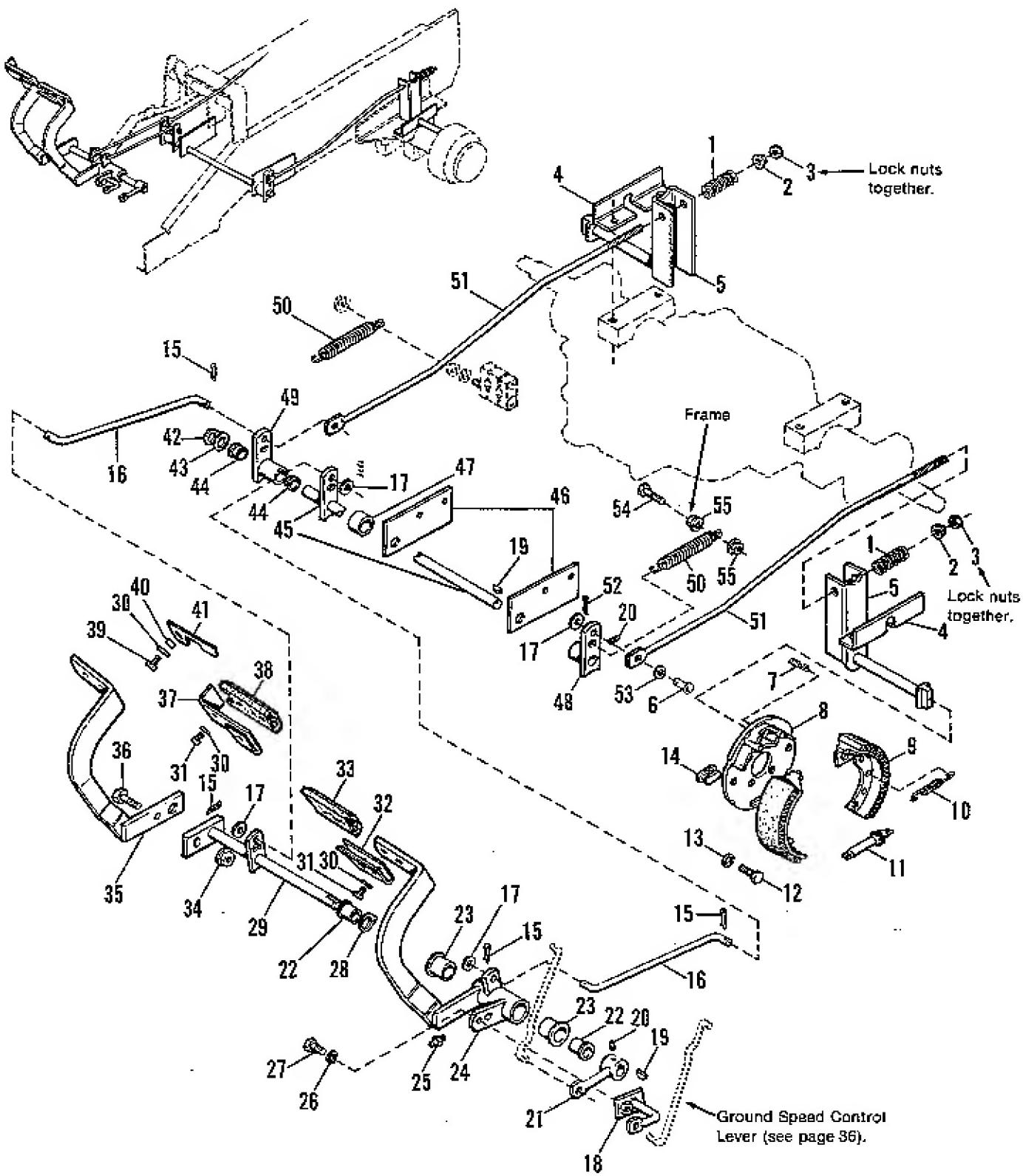
NOTE: Use standard hardware torque spec. chart unless otherwise noted.

Ref. No.	Part No.	Qty.	Description
1	1676171	2	SPRING, Compression
2	1677715	2	NUT, Large Flange, 1/2-13
3	1916951	2	NUT, Hex, 1/2-13
4	1676187	2	SUPPORT, Actuator
5	1676212	2	ACTUATOR ASSY.
6	1685333	2	ROD ASSY. (Incl. Ref. Nos. 36 & 38)
7	1676169	4	SPRING, Extension
8	1676155	2	BRAKE SUPPORT ASSY.
9	1676167	4	BRAKE SHOE & PAD ASSY.
10	1676168	2	SPRING, Extension
11	1676170	2	SCREW ASSY., Brake Adjusting
12	1921210	8	CAPSCREW, Hex Hd., 3/8-16 x 1
13	1916965	8	LOCKWASHER, 3/8
14	1676292	2	PLUG
15	1675815	1	LEVER ASSY., Brake, L.H.
16	1675305	2	BUSHING, 1-1/4 x 1-3/4 x 1
17	933701	2	PLUG
18	1675307	1	ROD & PLATE ASSY. Lock
19	921133	1	FITTING, Lube, 1/4" Drive
20	1917356	2	LOCKWASHER, 5/16
21	1921332	1	CAPSCREW, Hex Hd., 5/16-18 x 3/4
22	932726	1	RING, Retaining
23	1923341	2	CAPSCREW, Hex Hd., 1/4-20 x 3/4
24	1916964	2	LOCKWASHER, 1/4
25	1678488	1	SUPPORT, Pedal
26	1678489	1	PAD, Pedal
27	1924940	3	WASHER, Plain, 13/32 x 7/8 x 5/64
28	1674407	1	LEVER ASSY., Brake
29	1928721	1	SETSCREW, Sq. Hd., 5/16-18 x 1/2
30	1676351	1	SPRING, Extension
31	1918447	2	PIN, Cotter, 3/32 x 3/4
32	1676289	2	SUPPORT, Brake Cross Shaft
33	905123	1	KEY, Woodruff #9
34	1674448	1	SHAFT ASSY., Brake Pivot
35	1676346	1	SPACER, Special
36	1922755	1	WASHER
37	1676349	1	ROD, Brake
38	153058	1	PIN, Brake Rod
39	1930595	1	CAPSCREW, Hex, 5/16-18 x 1-1/4
40	1936048	2	NUT, Hex, Flange Lock, 5/16-18
41	1918451	2	PIN, Cotter, 1/8 x 3/4



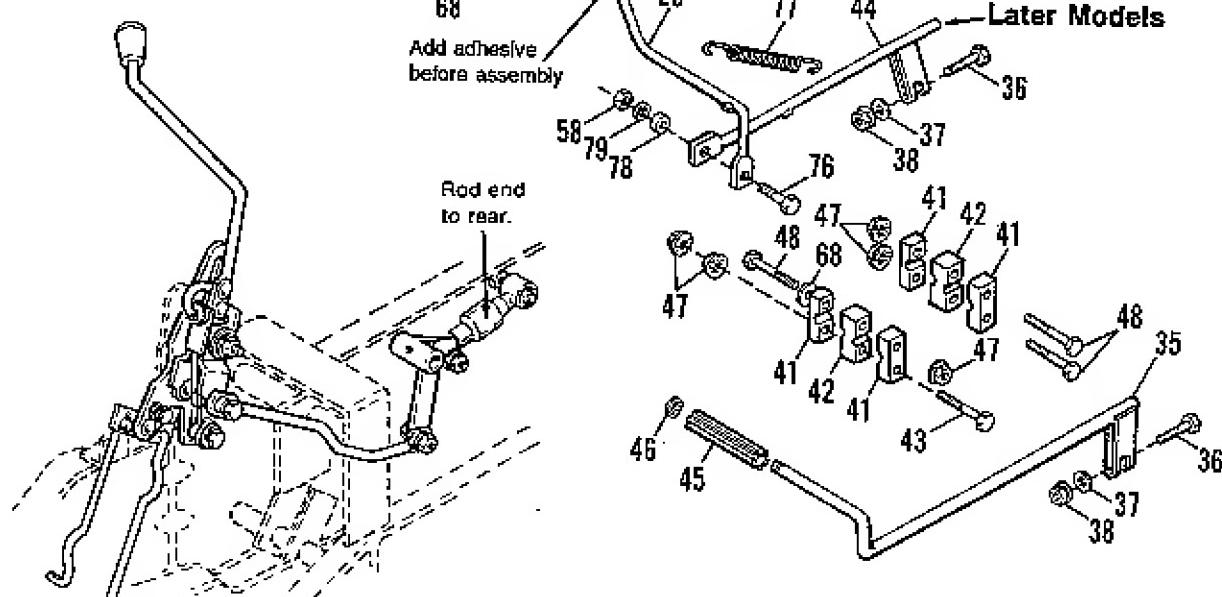
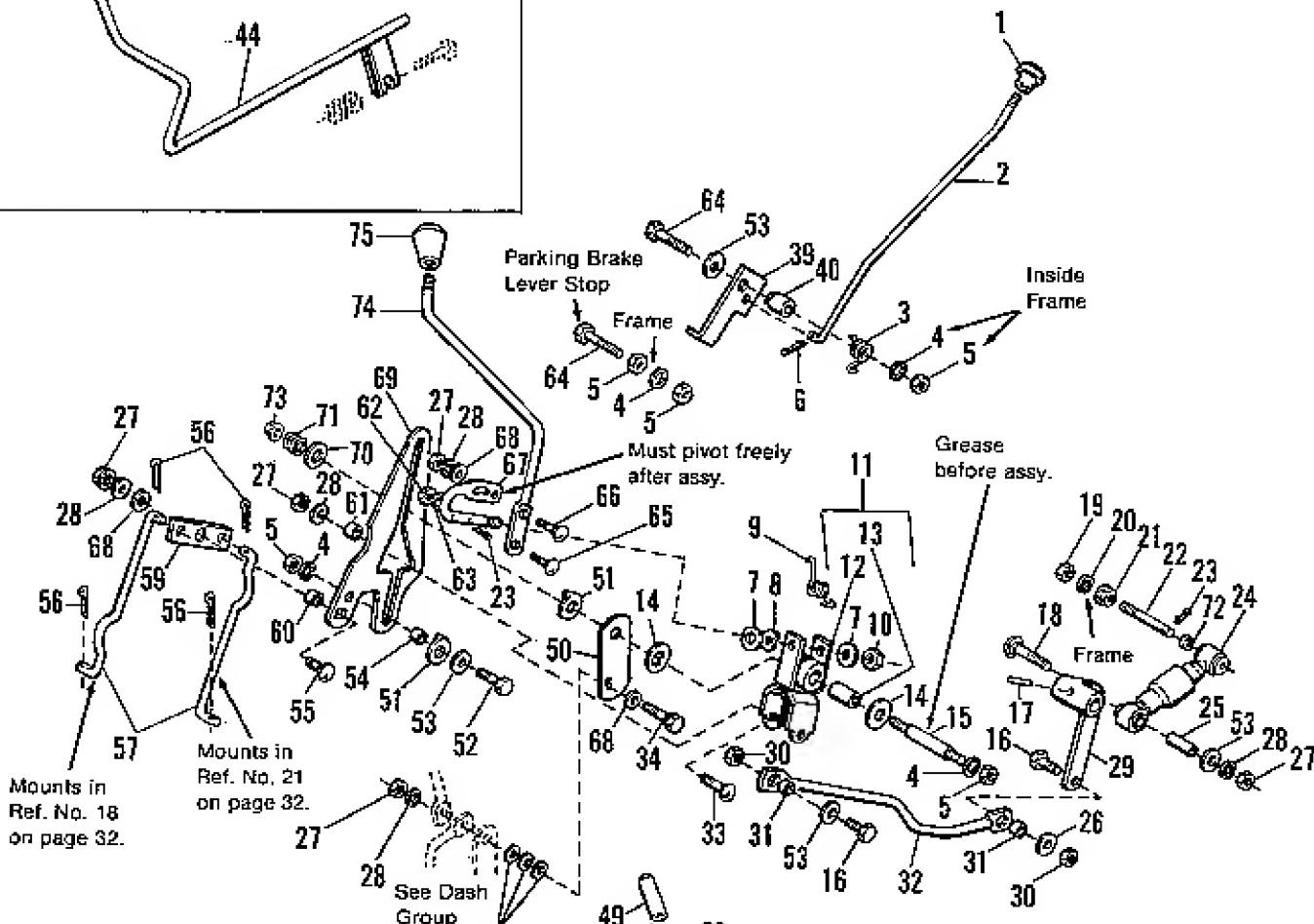
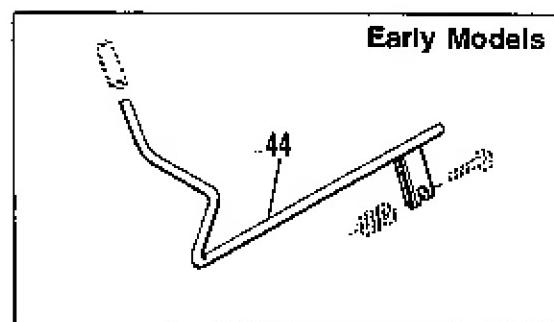
NOTE: Use standard hardware torque spec. chart unless otherwise noted.

Ref. No.	Part No.	Qty.	Description
1	1676374	1	KNOB, Parking Brake
2	1676377	1	ROD, Parking Brake
3	1675492	1	SPRING, Torsion
4	1916965	4	LOCKWASHER, 3/8
5	1916950	5	NUT, Hex, 3/8-16
6	1923360	1	PIN, Cotter, 1/16 x 3/4
7	1924361	2	WASHER, Plain, 1/2 x 1-1/4 x 5/64
8	1668681	1	WASHER, Curved, 1/2 x 1 x 1/64
9	1676307	1	SPRING, Torsion
10	1924650	1	NUT, Hex, Centerlock, Jam, 1/2-13
11	1676393	1	LEVER ASSY., Hyd. Control (Incl. Ref. Nos. 12 & 13)
12		1	LEVER ASSY., Hyd. Control (Not Serviced Separately)
13	1674254	1	BEARING SLEEVE
14	1705928	2	DISC., Friction
15	1702518	1	SHAFT, Pivot
16	1921966	2	CAPSCREW, Hex Hd., 3/8-16 x 7/8
17	916937	1	PIN, Spring, 1/4 x 1-1/4
18	1931800	1	BOLT, Carriage, 5/16-18 x 1-3/4
19	1918213	1	NUT, Hex, 7/16-14
20	1918199	1	LOCKWASHER, 7/16
21	1935041	1	NUT, Hex, Flange, Whizlock, 7/16-14
22	1676391	1	STUD
23	1918451	2	PIN, Cotter, 1/8 x 3/4
24	1675537	1	SHOCK ABSORBER (Speed Control)
25	1676392	1	SPACER
26	1679403	1	LEVER, Parking Brake
27	1917372	4	NUT, Hex, 5/16
28	1917356	4	LOCKWASHER, 5/16
29	1676316	1	LEVER ASSY., Control
30	1930651	2	NUT, Hex, Centerlock, 3/8-16
31	153081	2	SPACER, Ratchet Cage
32	1677069	1	ROD, Hydro Control
33	1960223	1	BOLT, Carriage, 5/16-18 x 1-1/4
34	1921221	1	CAPSCREW, Hex Hd., 5/16-18 x 1-1/2
35	1677757	1	BRACE, Hydro. Control
36	1674237	2	WASHER, Lug
37	1920415	1	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
38	1924940	4	WASHER, Plain, 13/32 x 7/8 x 5/64
39	1960237	1	SPACER, 25/64 x 5/8 x 13/32
40	1674419	1	CAM PLATE, Hydro. Lever
41	1674732	1	ROD, Ground Speed Control
42	1918447	2	PIN, Cotter, 3/32 x 3/4
43	1675795	1	SPACER
44	1960339	1	NUT, Hex Flange Lock, 3/8-16
45	157169	1	SPACER
46	1677746	1	SPRING, Compression
47	1960020	1	WASHER, Plain, 21/32 I.D.
48	1916622	1	NUT, Hex, 1/4-20
49	1916964	1	LOCKWASHER, 1/4
50	1678837	1	ROD HYDRO., Control
51	1676375	1	SPACER, Parking Brake
52	1931320	1	BOLT, Carriage, 1/4-20 x 1-1/4
53	1931335	1	BOLT, Carriage, 5/16-18 x 1
54	1919326	6	WASHER, Plain, 11/32 x 3/4 x 1/16
55	1678949	1	LEVER, Speed Control
56	1676743	1	KNOB, Speed Control
57	1921971	2	CAPSCREW, Hex Hd., 3/8-16 x 1-3/4



NOTE: Use standard hardware torque spec. chart unless otherwise noted.

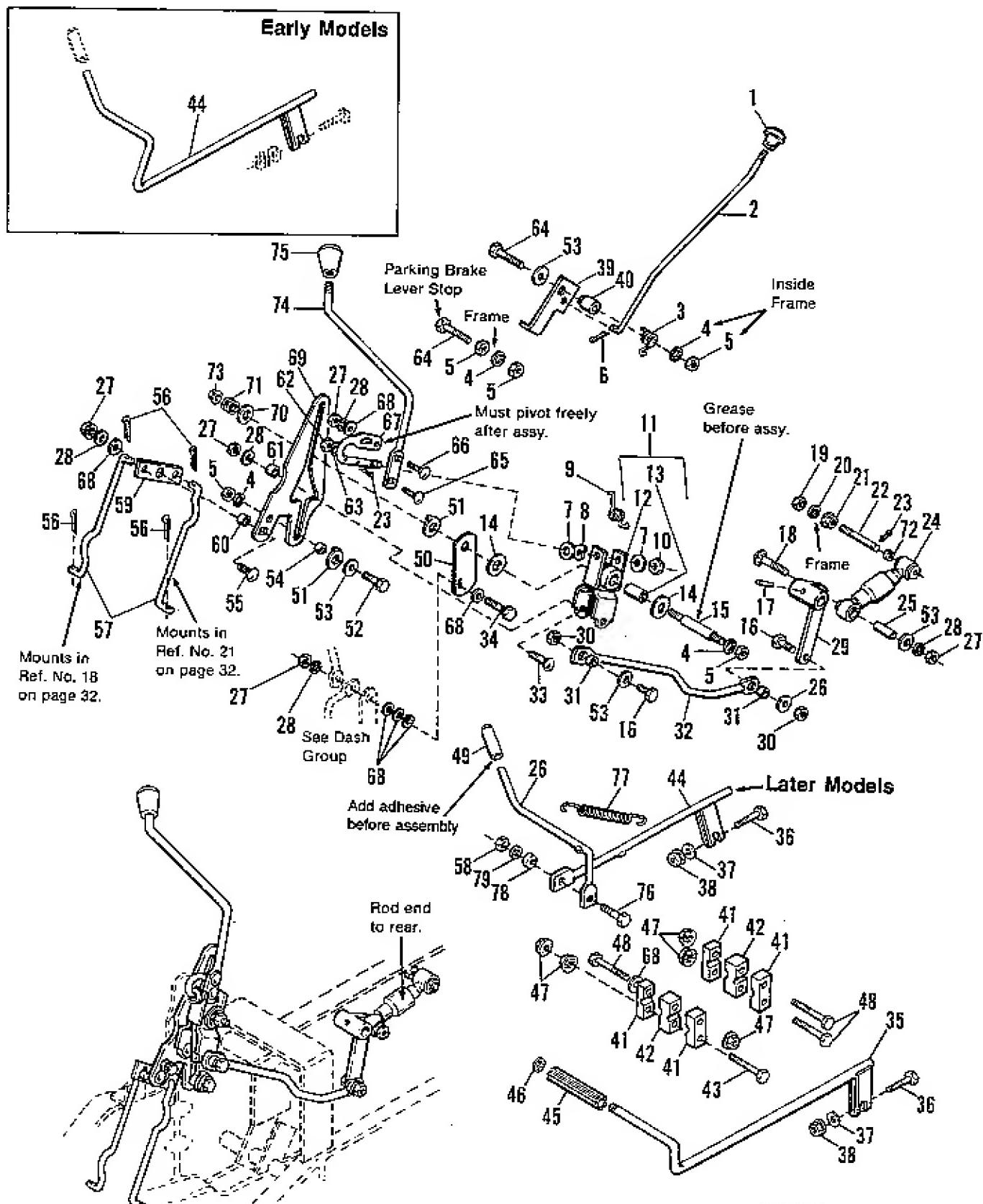
Ref. No.	Part No.	Qty.	Description
1	1676171	2	SPRING, Compression
2	1677715	2	NUT, Large Flange, 1/2-13
3	1916951	2	NUT, Hex, 1/2-13
4	1676187	2	SUPPORT, Actuator
5	1676212	2	ACTUATOR ASSY.
6	153058	1	PIN
7	1676169	4	SPRING, Extension
8	1676155	2	BRAKE SUPPORT ASSY.
9	1676167	4	BRAKE SHOE & PAD ASSY.
10	1676168	2	SPRING, Extension
11	1676170	2	SCREW ASSY., Brake Adjusting
12	1921210	8	CAPSCREW, Hex Hd., 3/8-16 x 1
13	1916965	8	LOCKWASHER, 3/8
14	1676292	2	PLUG
15	1918451	4	PIN, Cotter, 1/8 - 3/4
16	1676349	2	ROD & PLATE, Brake
17	1924940	4	WASHER, Plain, 13/32 x 7/8 x 5/64
18	1675307	1	ROD ASSY., Lock
19	905123	2	KEY, Woodruff #9
20	1928721	2	SETSCREW, Sq. Hd., 5/16-18 x 1/2
21	1674410	1	ROD ASSY., Pivot Plate
22	1675306	2	BUSHING, 3/4 x 7/8 x 1
23	1675305	2	BUSHING, 1-1/4 x 1-3/4 x 1
24	1675815	1	LEVER ASSY., Brake, L.H.
25	921133	1	FITTING, Lube, 1/4 " Drive
26	1917356	1	LOCKWASHER, 5/16
27	1921332	1	CAPSCREW, Hex Hd.
28	932726	1	RING, Retaining
29	1676857	1	SHAFT ASSY., Brake, R.H.
30	1916964	4	LOCKWASHER, 1/4
31	1923341	3	CAPSCREW, Hex Hd., 1/4-20 x 3/4
32	1675338	1	SUPPORT, Lock
33	1676859	1	PAD, Pedal, Inner
34	1935041	1	LOCKNUT, Hex, Whiz, 7/16-14
35	1675814	1	LEVER ASSY., Brake, R.H.
36	1920677	1	CAPSCREW, Hex Hd., 7/16-14 x 1-1/4
37	1675337	1	SUPPORT, Pedal Lock
38	1674423	1	PAD, Pedal
39	1921960	1	CAPSCREW, Hex Hd., 1/4-20 x 1
40	1675339	1	SPACER
41	1675336	1	LOCK, Pedal
42	927732	1	RING, Retaining
43	1960114	1	WASHER, Plain, 3/4
44	1671737	2	BUSHING
45	1674448	1	SHAFT & LEVER ASSY., Brake Pivot
46	1676289	2	SUPPORT, Brake Cross Shaft
47	1676346	1	SPACER, Special
48	1674407	1	LEVER ASSY., Brake
49	1676347	1	LEVER ASSY., Brake
50	1676351	2	SPRING, Extension
51	1835333	2	ROD ASSY. (Incl. Ref. Nos. 6 & 53)
52	1918447	1	PIN, Cotter, 3/32 x 3/4
53	1922755	1	WASHER, 13/32
54	1930595	1	CAPSCREW, Hex, 5/16-18 x 1-1/4
55	1935048	2	NUT, Hex Flangelock, 5/16-18



NOTE: Use standard hardware torque spec. chart unless otherwise noted.

Ref. No.	Part No.	Qty.	Description
1	1676374	1	KNOB, Parking Brake
2	1676377	1	ROD, Parking Brake
3	1675492	1	SPRING, Torsion
4	1916965	4	LOCKWASHER, 3/8
5	1916950	5	NUT, Hex, 3/8-16
6	1923960	1	PIN, Cotter, 1/16 x 3/4
7	1924361	2	WASHER, Plain, 1/2 x 1-1/4 x 5/64
8	1668681	1	WASHER, Curved, 1/2 x 1 x 1/64
9	1676307	1	SPRING, Torsion
10	1924650	1	NUT, Hex, Centerlock, Jam, 1/2-13
11	1676393	1	LEVER ASSY., Hyd. Control (Incl. Ref. Nos. 12 & 13)
12		1	LEVER ASSY., Hyd. Control (Not Serviced Separately)
13	1674254	1	BEARING SLEEVE
14	1705928	2	DISC., Friction
15	1702518	1	SHAFT, Pivot
16	1921966	2	CAPSCREW, Hex Hd., 3/8-16 x 7/8
17	916937	1	PIN, Spring, 1/4 x 1-1/4
18	1931800	1	BOLT, Carriage, 5/16-18 x 1-3/4
19	1918213	1	NUT, Hex, 7/16-14
20	1918199	1	LOCKWASHER, 7/16
21	1935041	1	NUT, Hex, Flange, Whizlock, 7/16-14
22	1676391	1	STUD
23	1918451	2	PIN, Cotter, 1/8 x 3/4
24	1675537	1	SHOCK ABSORBER
25	1676392	1	SPACER, 5/16
26	1706633	1	ROD, High-Low Control, Upper
27	1917372	5	NUT, Hex, 5/16
28	1917356	5	LOCKWASHER, 5/16
29	1676316	1	LEVER ASSY, Control
30	1930651	2	NUT, Hex, Centerlock, 3/8-16
31	153081	2	SPACER, Ratchet Cage
32	1677069	1	ROD, Hydro Control
33	1960223	1	BOLT, Carriage, 5/16-18 x 1-1/4
34	1921221	1	CAPSCREW, Hex Hd., 5/16-18 x 1-1/2
35	1676323	1	ROD & BRACKET ASSY., Diff. Lock
36	1922837	2	CAPSCREW, Hex Hd., 1/4-20 x 1-1/2
37	1921319	2	WASHER, Plain, 17/64 x 5/8 x 3/4
38	1930642	2	LOCKNUT, Hex, Flange, 1/4-20
39	1679403	1	LEVER, Parking Brake
40	1676375	1	SPACER, Parking Brake

For Ref. Nos. 41-79, see next page.



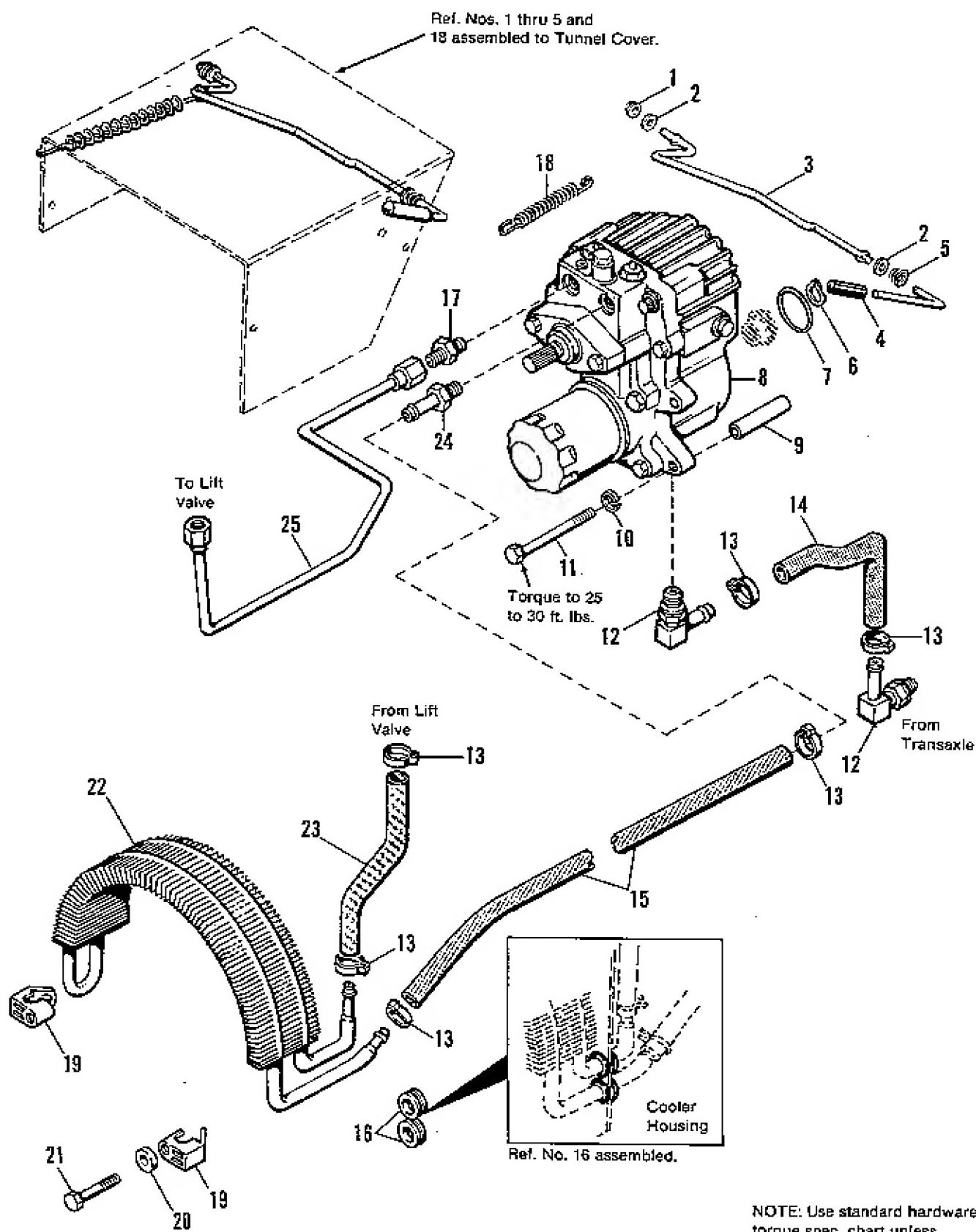
NOTE: Use standard hardware torque spec. chart unless otherwise noted.

Ref. No.	Part No.	Qty.	Description
41	1674631	4	BEARING HALF, Outer
42	1674632	2	BEARING HALF, Center
43	1923141	1	CAPSCREW, Hex Hd., 5/16-18 x 2-3/4
44	1676321*	1	ROD ASSY., Hi-Lo Control, Lower
	1700204**	1	ROD ASSY., Hi-Lo Control, Lower
45	1676371	1	PAD, Foot, Differential Lock
46	158399	1	RING, Retaining "E"
47	1935048	5	LOCKNUT, Hex, Flange, 5/16-18
48	1921160	3	CAPSCREW, Hex Hd., 6/16-18 x 2-1/4
49	1675708	1	GRIP, Handle, Hi-Lo Control
50	1677757	1	BRACE, Hydro Control
51	1674237	2	WASHER, Lug
52	1920415	1	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
53	1924940	4	WASHER, Plain, 13/32 x 7/8 x 5/64
54	1960237	1	SPACER, 25/64 x 5/8 x 13/32
55	1931334	1	BOLT, Carriage, 5/16-18 x 7/8, Gr. 5
56	1918447	4	PIN, Cotter, 3/32 x 3/4
57	1674236	2	ROD, Ground Speed Brake
58	1923362	1	NUT, Hex Lock, 5/16-18
59	1676823	1	PLATE, Pivot
60	1960238	1	SPACER, 6/16 x 5/8 x 7/32
61	1675795	1	SPACER, 21/64 x 5/8 x 1/2
62	1916622	1	NUT, Hex, 1/4 x 20
63	1916964	1	LOCKWASHER, 1/4
64	1921971	2	CAPSCREW, Hex Hd., 3/8-16 x 1-3/4
65	1931320	1	BOLT, Carriage, 1/4-20 x 1-1/4
66	1931335	1	BOLT, Carriage, 5/16-18 x 1
67	1678897	1	ROD, Hydro Control
68	1919326	8	WASHER, Plain, 11/32 x 3/4 x 1/16
69	1674419	1	CAM PLATE, Hydro Lever
70	1960020	1	WASHER, Plain, 21/32
71	1677746	1	SPRING, Compression
72	157168	1	SPACER
73	1960339	1	LOCKNUT, Hex, Flange, 3/8-16
74	1678949	1	LEVER, Shift Control
75	1676743	1	KNOB, Speed Control
76	1921333	1	CAPSCREW, Hex Head, 5/16-18 x 1
77	156302	1	SPRING
78	1703900	1	SPACER
79	1919381	1	WASHER

For Ref. Nos. 1-40 see previous page.

* Early Model Rod Assembly - see illustration on page 36

** Later Model Rod Assembly - see illustration on page 36



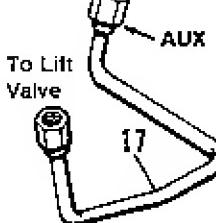
NOTE: Use standard hardware torque spec. chart unless otherwise noted.

Ref. No.	Part No.	Qty.	Description
1	1960126	1	PUSH NUT, 1/4
2	1921319	2	WASHER, 17/64 x 5/8 x 3/64
3	1675567	1	ROD, Hydrostatic Release
4	1704575	1	GRIP, Release Handle
5	153010	1	SPRING
6	927731	1	RING, Retaining Ext. (.888 Shaft I.D., Early Models)
	927103	1	RING, Retaining Ext. (.625 Shaft I.D., Later Models)
7	924135	1	"O" RING
8	1702093	1	HYDROSTATIC PUMP (See page 44 for parts breakdown.)
9	1960233	4	SPACER, Mounting
10	1916965	4	LOCKWASHER, 3/8
11	1922648	4	CAPSCREW, Hex Hd., 3/8-16 x 4
12	1669954	2	FITTING, HYD., 7/8-14 O.R. x 5/8 90
13	1679214	6	CLAMP, Hose
14	1677011	1	HOSE, HYD., 5/8 Preformed
15	1674218	1	HOSE, Hyd., Return (Cooler to Pump)
16	1676648	2	GROMMET, Rubber, 5/8" x 1-1/8" O.D.
17	922522	1	FITTING, Hyd., 9/16-18 O.R. x 9/16-18
18	1706553	1	SPRING, Tension, Hydrostatic Release
19	1675960	2	CLAMP, Oil Cooler
20	1700692	2	SPACER
21	1960308	2	SCREW, Plastite, 1/4 x 1-1/2
22	1675987	1	COOLER, Oil
23	1674217	1	HOSE, Return, (Lift Valve to Cooler)
24	171465	1	FITTING, Hyd., 9/16-18 O.R. x 1/2
25	1674216	1	TUBE ASSY., Hyd. (Pump to Lift Valve)

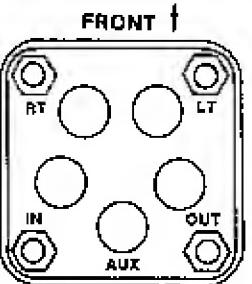
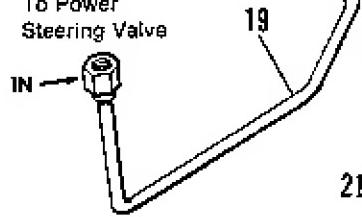
NOTE: Use standard hardware torque spec. chart unless otherwise noted.

M **A** Tighten oil filter 3/4 turn after filter seal makes contact with base.

From Power Steering Valve

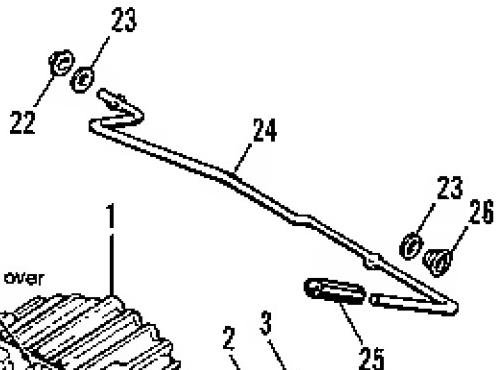


To Power Steering Valve



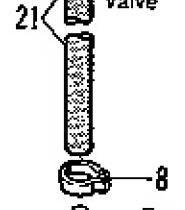
Power Steering Unit
Viewed From Bottom

Apply coat of grease over bypass valve.

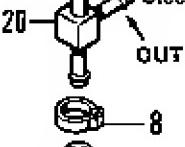


Spray with O-ring sealer to aid positioning during assembly.

From Lift Valve



From Power Steering Valve



Torque to
25-30 ft. lbs.

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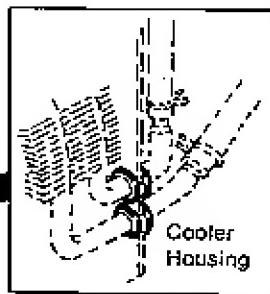
25

3

2

1

23

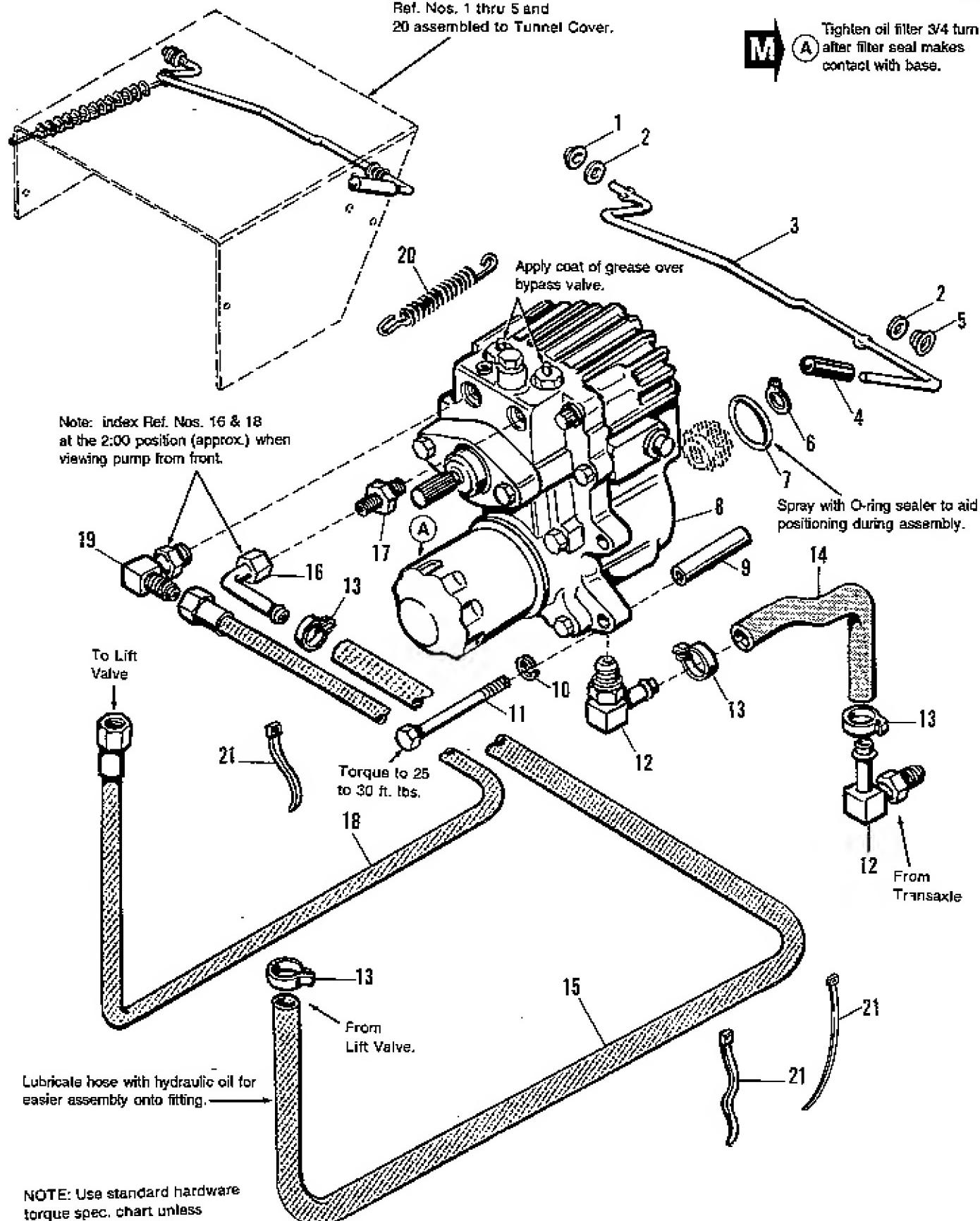


Ref. No. 11 assembled.

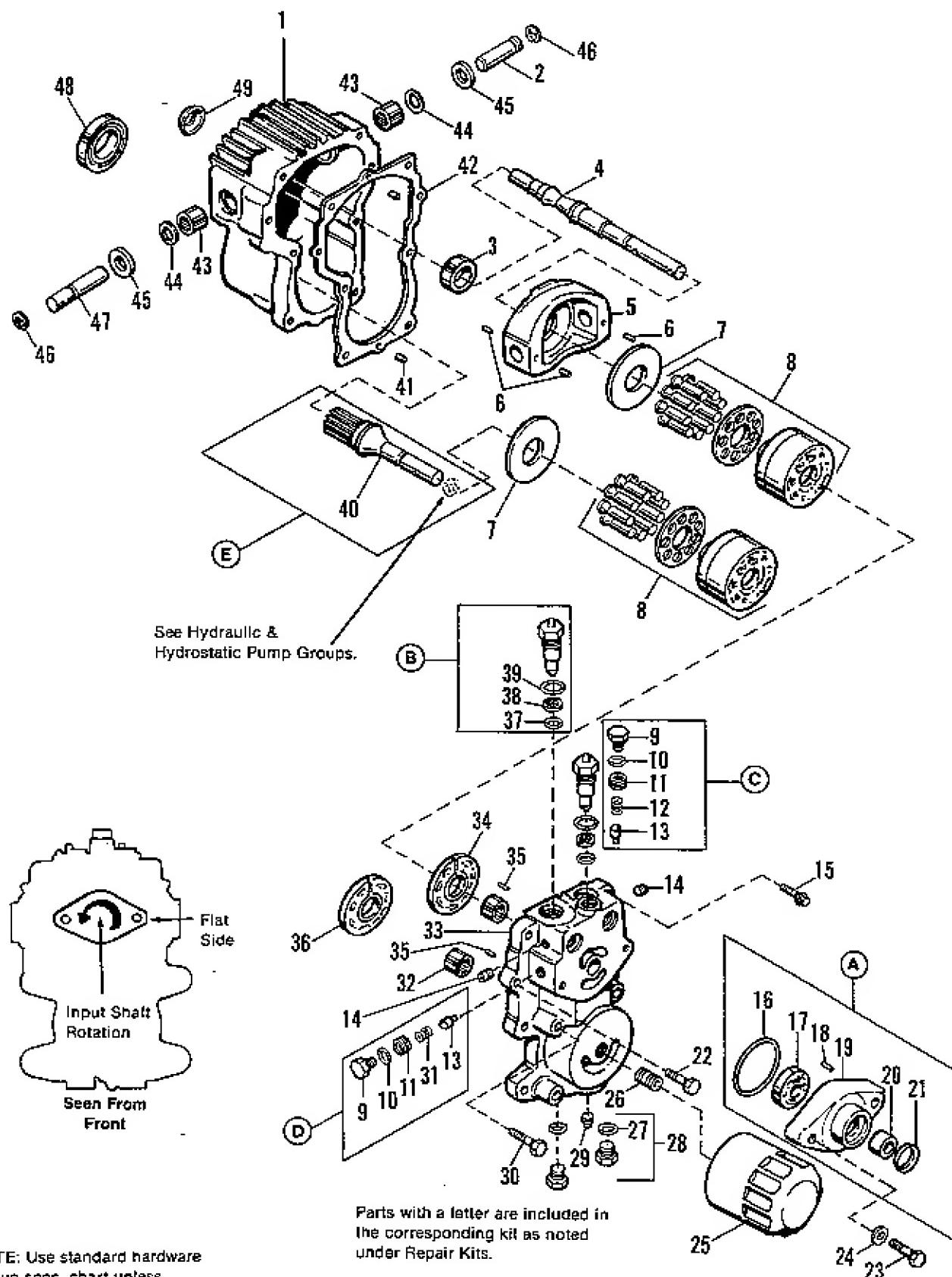
Ref. No.	Part No.	Qty.	Description
1	1702093	1	HYDROSTATIC PUMP (See pg. 44 for parts breakdown)
2	924135	1	"O" RING
3	927731	1	RING, Retaining Ext. (.688 Shaft I.D., Early Models)
	927103	1	RING, Retaining Ext. (.625 Shaft I.D., Later Models)
4	1960238	4	SPACER, Mounting
5	1922648	4	CAPSCREW, Hex Hd., 3/8-16 x 4, Gr. 5
6	1916965	4	LOCKWASHER, 3/8
7	1669954	2	FITTING, Hyd., 7/8-14 O.R. x 5/8, 90
8	960266	8	CLAMP, Hose
9	1677011	1	HOSE, Hyd., 5/8" I.D., Preformed
10	1674218	1	HOSE, Hyd., Return (Cooler to Pump)
11	1676648	2	GROMMET, Rubber
12	171465	1	FITTING, Hyd., 9/16-18 O.R. x 1/2
13	922522	1	FITTING, Hyd. 9/16-18 O.R. x 9/16-18
14	1675960	2	CLAMP, Oil Cooler
15	1700692	2	SPACER
16	1960308	2	SCREW, Plastite, 1/4-20 x 1-1/2
17	1674784	1	TUBE ASSY., Hyd. (P.S. Valve to Lift Valve)
18	1675987	1	COOLER, Oil
19	1675600	1	TUBE ASSY. Hyd. (Pump to Power Steering Valve)
20	1674768	1	FITTING, Hyd., Tee, 1/2 x 1/2 x 3/8
21	1674766	2	HOSE, Hyd., Return
*22	1960126	1	PUSH NUT
*23	1921319	2	WASHER, 17/64 x 5/8 x 3/64
*24	1675567	1	ROD, Hydrostatic Release
*25	1704575	1	GRIP, Release Handle
*26	153010	1	SPRING, Tension, Hydro Release
*27	1706553	1	SPRING

*Used on 1691528, 1691924 only.

A-**1610



Ref. No.	Part No.	Qty.	Description
1	1960126	1	PUSH NUT, 1/4
2	1921319	2	WASHER, 17/64 x 5/8 x 3/64
3	1676567	1	ROD, Hydrostatic Release
4	1704576	1	GRIP, Release Handle
5	153010	1	SPRING
6	927731	1	RING, Retaining Ext. (.688 Shaft I.D., Early Models)
	927103	1	RING, Retaining Ext. (.625 Shaft I.D., Later Models)
7	924135	1	"O" RING
8	1702093	1	HYDROSTATIC PUMP (See page 44 for parts breakdown.)
9	1960233	4	SPACER, Mounting
10	1916965	4	LOCKWASHER, 3/8
11	1922648	4	CAPSCREW, Hex Hd., 3/8-16 x 4
12	1669954	2	FITTING, HYD., 7/8-14 O.R. x 5/8 90
13	960266	4	CLAMP, Hose
14	1677011	1	HOSE, HYD., 5/8 Preformed
15	1700932	1	HOSE, Hyd., Return (Cooler to Pump)
16	1676397	1	ELBOW, 90 Barb 3/4-16 x 1/2
17	924403	1	FITTING, Hyd., 9/16-18 O.R. x 3/4-16 St. Flare
18	1611787	1	HOSE ASSY.
19	1675789	1	ELBOW, Hyd. Male Swivel, 9/16-18 O.R. x 9/16-18
20	1706553	1	SPRING, Tension, Hydrostatic Release
21	1701011	3	TIE, Self-Locking



NOTE: Use standard hardware torque spec. chart unless otherwise noted.

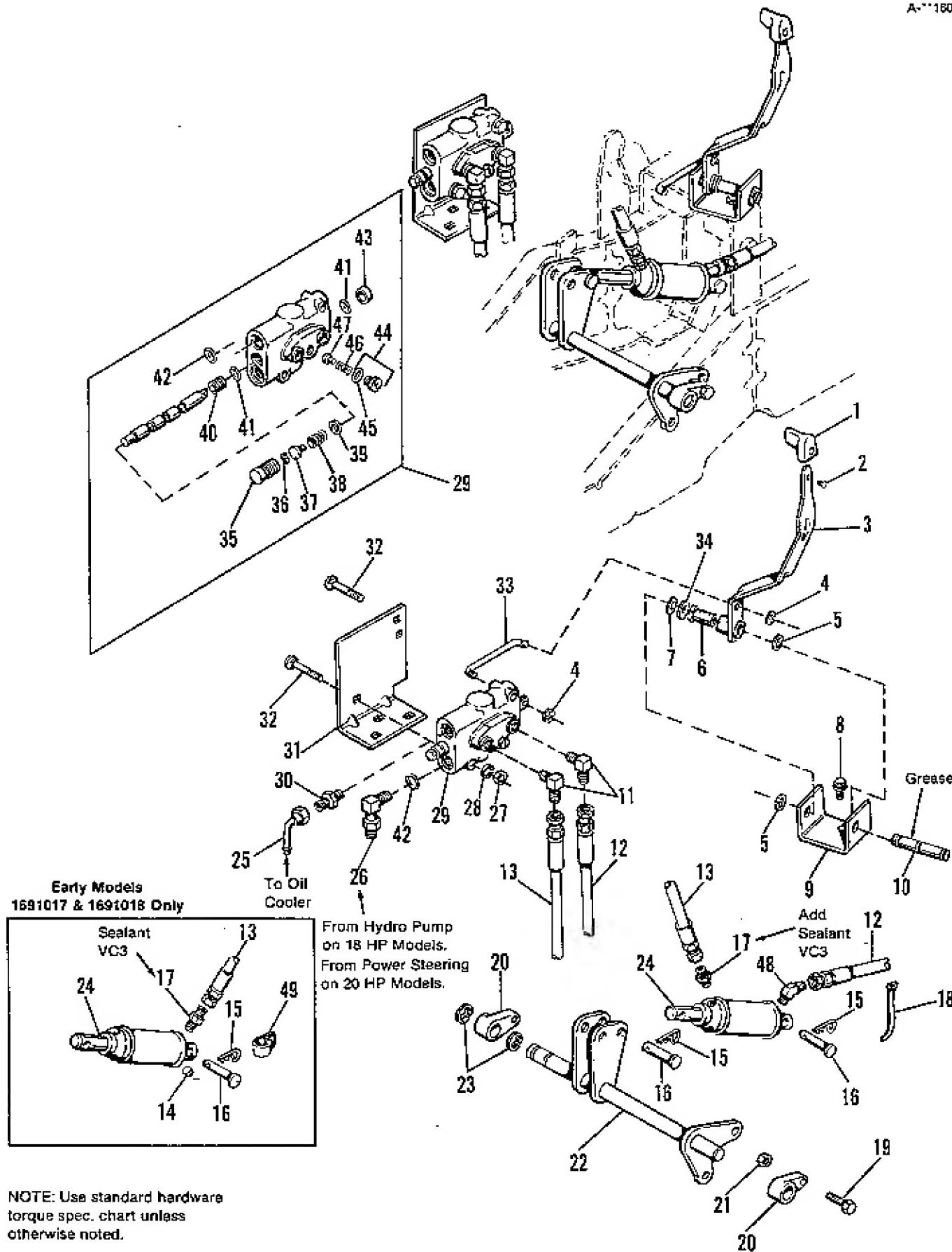
Ref. No.	Part No.	Qty.	Description
1	1678975	1	HOUSING ASSY. (Incl. Ref. Nos. 49, 49 & 44)
2	1652194	1	SHAFT, Trunnion
3	1652231	1	BEARING, Ball
4	1678987	1	SHAFT, Pump
5	1673538	1	PLATE, Swash
6	1652226	3	PIN, Spring
7	1673532	2	PLATE, Thrust
8	1673535	2	BLOCK, Cylinder
9	1652217	2	PLUG, Hex Hd.
10	921884	2	"O" RING
11	1652216	4	KIT, Shim Pack
12	1700813**	1	SPRING, Rel. Valve
	1678986*	1	SPRING, Rel. Valve
13	1652214	2	CONE, Rel. Valve
14	1652213	4	PLUG, Pipe
15	1652212	2	SCREW, 12 Pt.
16	1652207	1	"O" RING
17	1678985	1	GEROTER
18	1678984	1	PIN, Straight
19	1678983	1	HOUSING, Charge Pump
20	1678979	1	BEARING, Roller
21	1678981	1	SEAL, Lip
22	1920415	2	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
23	927531	2	CAPSCREW, Hex Hd., 7/16-14 x 2
24	1652201	2	WASHER, Flat
25	1671234	1	FILTER ASSY, 2.26" Long (1691250 & 1691357)
	1650954	1	FILTER ASSY, 3.75" Long (All models except 1691250 & 1691357)
26	1671699	1	UNION, Filter
27	1652196	2	"O" RING
28	1652197	2	PLUG, Hex Hd. (Incl. Rel. No. 27)
29	1671665	1	PLUG, Pipe (Incl. Ref. No. 27)
30	1923701	4	CAPSCREW, Hex Hd., 3/8-16 x 2
31	1652253	1	SPRING, Rel. Valve
32	1678979	2	BEARING, Roller
33	1678980	1	SECTION, Center
34	1652223	1	PLATE, Valve (Pump)
35	1652224	2	PIN, Headless, SL
36	1652189	1	PLATE, Valve (Motor)
37	1652221	2	"O" RING
38	1652220	2	RING, Back-Up
39	1652219	2	"O" RING
40		1	SHAFT, Motor (See Repair Kit "E")
41	1652185	2	PIN, Headless
42	1652184	1	GASKET
43	1652251	2	BEARING, Needle
44	1652234	2	SEAL, Lip
45	1652235	2	WASHER
46	1652192	2	RING, Retaining
47	1652183	1	SHAFT, Trunnion
48	1678977	1	BEARING, Ball
49	1652232	1	SEAL, Lip

Repair Kits

A	1678988	CHARGE PUMP KIT (Incl. Ref. Nos. 16, 17, 18, 19, 20 & 21)
B	1673537	CHECK VALVE ASSY. (Incl. Ref. Nos. 37, 38 & 39)
C	1700812**	RELIEF VALVE KIT (Incl. Ref. Nos. 9, 10, 11, 12 & 13)
	1678990*	RELIEF VALVE KIT (Incl. Ref. Nos. 9, 10, 11, 12 & 13)
D	1673538	RELIEF VALVE KIT (Incl. Ref. Nos. 9, 10, 11, 13 & 31)
E	1703993	SHAFT & SNAP RING KIT

* Used on Sundstrand Model 90-1256 Serial No. 06-86-32 or less.

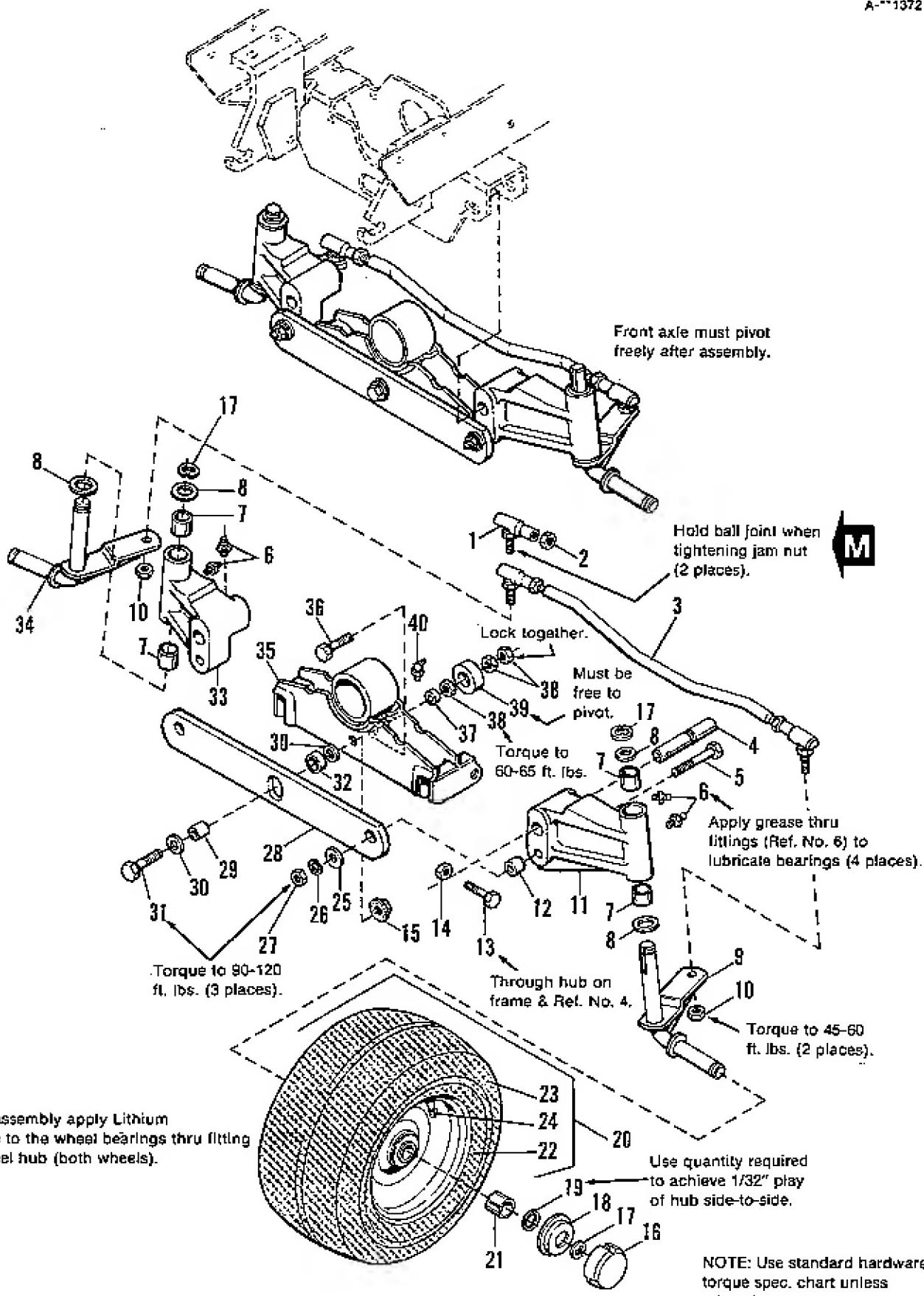
** Used on Sundstrand Model 90-1256 Serial No. 06-86-33 and greater or Sundstrand Model 90-1267.



NOTE: Use standard hardware torque spec. chart unless otherwise noted.

Ref. No.	Part No.	Qty.	Description
1	171165	1	KNOB, Control Handle
2	1960106	1	SCREW, Plastite, 1/4 x 1
3	1675970	1	CONTROL LEVER ASSY.
4	927789	2	RING, Retaining, "E" Type, 3/16
5	927793	2	RING, Retaining, "E" Type, 5/8
6	175731	1	BUSHING, Nylon, 41/64" I.D. x 49/64" O.D. x 1-1/2"
7	1678100	1	WASHER, Spring
8	1925359	2	SCREW, Taprite, 5/16-18 x 3/4
9	1675974	1	BRACKET, Support
10	1675975	1	SHAFT, Control Support
11	928812	2	FITTING, Hyd.
12	1702392	1	HOSE ASSY., Hyd. (Valve to front of strg. cyl.)
13	1675157	1	HOSE ASSY., Hyd. (Valve to rear of strg. cyl.)
14	920129	1	FITTING, Pipe Plug (1691017 & 1691018 only)
15	1960033	2	CLIP, Hairpin
16	171690	2	PIN, Yoke, 5/8 x 2-1/16
17	919766	1	FITTING, Hyd. (Qty. 2 on 1691017, 1691018 only)
18	925094	1	TIE, Plastic
19	1921977	2	CAPSCREW, Hex Hd., 5/16-18 x 1-1/4
20	1670728	2	BEARING, Lift Shaft
21	1923362	2	LOCKNUT, Hex, 5/16-18
22	1674425	1	LIFT ASSY., Cylinder
23	934712	2	"E" RING, Ext.
24	1685347	1	CYLINDER, Hyd., Lift (includes Ref. No. 13)
25	1676397	1	FITTING, Hyd.
26	1675769	1	FITTING, Hyd.
27	1916622	2	NUT, Hex, 1/4-20
28	1916964	2	LOCKWASHER, 1/4
29	1674952	1	VALVE ASSY., Control (Incl. Ref. Nos. 35 thru 47)
30	924403	1	FITTING, Hyd.
31	1676279	1	PLATE, Valve Mount
32	1931323	2	BOLT, Carriage, 1/4-20 x 2
33	1675944	1	ROD, Control
34	1960020	1	WASHER, Plain, 21/32 I.D. x 1-1/4 O.D. x 1/16
35	1673834	1	CAP, Valve Assy.
*36	1673837	1	RING, Retaining
37	1673833	1	SPACER
38	1673835	1	SPRING
39	1673836	1	WASHER
40	174137	1	BUSHING
*41	1679142	2	"O" RING
42	1667825	2	"O" RING
*43	1679138	1	WIPER, Scraper
44	174131	1	PLUG & O-RING ASSY. (Incl. Ref. No. 45)
*45	174133	1	"O" RING
46	174134	1	SPRING
47	174130	1	PLUNGER, Lift Check
48	935046	1	FITTING, Elbow 45, 1/8-27 x 1/2-70
49	927310	1	CLAMP, Insulated, (1691017 & 1691018 only)

*Seal Repair Kit, part number 1679732, contains Ref. Nos. 36, 41, 43 & 45.



Ref. No.	Part No.	Qty.	Description
1	1677206	2	BALL JOINT ASSY.
2	1919262	2	NUT, Hex, Jam, 1/2-20
3	1674203	1	TIE ROD ASSY., (Incl. Ref. No. 1 & 2)
4	1677464	2	PIN, Axle Pivot
5	1685377	2	CAPSCREW, Hex Hd., 1/2-13 x 2-3/4, Gr. 8 (Incl. Ref. No. 27)
6	912808	4	FITTING, Lube, 1/4-28
7	168103	4	BUSHING, Spindle
8	1919394	4	WASHER, 1-1/32 x 1-5/8 x 1/16
9	1685319	1	SPINDLE ASSY., L.H.
10	1930245	2	NUT, Hex, Centerlock, 1/2-20
11	1673014	1	AXLE PIVOT ASSY., L.H. (Incl. Ref. Nos. 6 & 7)
12	1677262	2	SPACER, Axle Link
13	1922127	2	CAPSCREW, Hex Hd., 5/16-18 x 1-3/4, Gr. 5
14	1923362	2	NUT, Hex, Centerlock, 5/16-18
15	1930644	1	NUT, Hex, Flange, 1/2-13
16	1676519	2	CAP, Hub
17	932577	4	RING, Retaining, Heavy Duty
18	1676520	2	RETAINER, Hub Cap
19	172586	AR	WASHER, Shim, 1" I.D. x 1-5/8" O.D. x 1/32" (As Required - Qty.)
20	1669512	2	FRONT WHEEL & TIRE ASSY., 16 x 6 1/2-8 (Incl. Ref. Nos. 22, 23 & 24)
21	1669864	4	BEARING
22	1669851	2	WHEEL ASSY., w/ Bearings (Incl. Ref. No. 21)
23	1678809	2	TIRE, 16 x 6.50-8
24	172353	2	VALVE STEM & CAP
25	1918431	2	WASHER, 9/16 I.D. x 1-3/8 O.D. x 7/64
26	1916966	2	WASHER, Lock, 1/2
27	1916951	2	NUT, Hex, 1/2-13
28	1669519	1	LINK, Axle
29	1669516	1	SPACER, Front Hitch
30	1676435	2	WASHER, 1/2" I.D. x 1-1/4 O.D. x 3/16
31	1921898	1	CAPSCREW, Hex Hd., 1/2-13 x 2, Gr. 8
32	1960232	1	SPACER, 7/8 I.D. x 1-1/4 O.D. x 21/32
33	1673015	1	AXLE PIVOT ASSY., R.H. (Incl. Ref. Nos. 6 & 7)
34	1674111	1	SPINDLE ASSY., R.H.
35	1685388	1	HITCH SUPPORT ASSY. (Incl. Ref. No. 40)
36	1921525	1	CAPSCREW, Hex Hd., 1/2-13 x 1-3/4, Gr. 8
37	1677474	1	SPACER, Front Axle
38	1913744	3	NUT, Hex, Jam, 1/2-13
39	1677473	1	RETAINER, Front Axle
40	1679811	1	FITTING, Lube, 45, 1/4 Drive Type

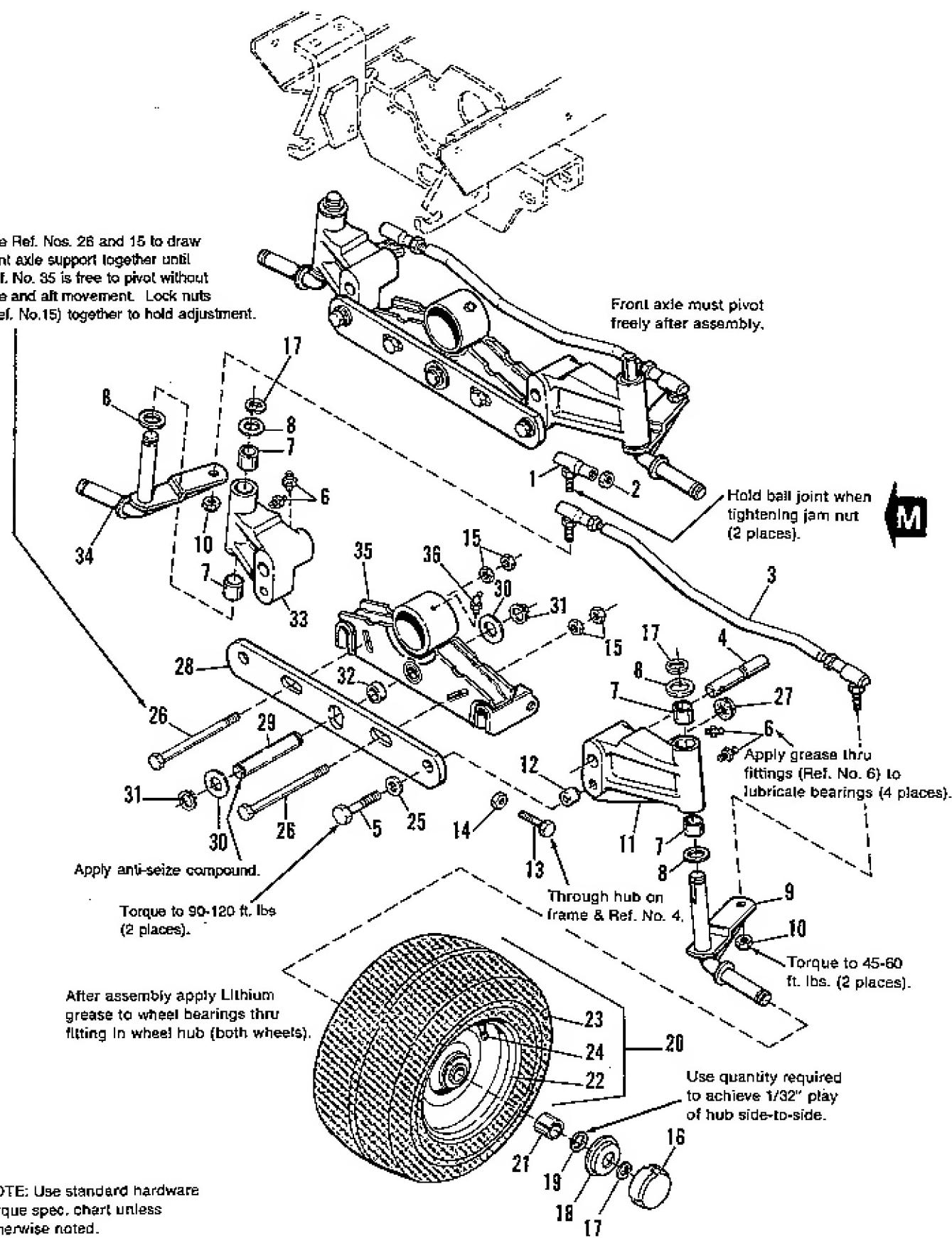
*Used on 1691250 before serial no. 1204.

*Used on 1691357 before serial no. 1512.

*Used on 1691380 before serial no. 1137.

*Used on 1691381 before serial no. 2020.

*Used on 1691528 before serial no. 1457.



NOTE: Use standard hardware torque spec. chart unless otherwise noted.

Ref. No.	Part No.	Qty.	Description
1	1677206	2	BALL JOINT ASSY.
2	1919262	2	NUT, Hex, Jam, 1/2-20
3	1674203	1	TIE ROD ASSY. (Incl. Ref. No. 1 & 2)
4	1677464	2	PIN, Axle Pivot
5	1685377	2	CAPSCREW, Special Hi Strength, 1/2-13 x 2-3/4
6	912808	4	FITTING, Lube, 1/4-28
7	168103	4	BUSHING, Spindle
8	1919394	4	WASHER, 1-1/32 x 1-5/8 x 1/16
9	1685319	1	SPINDLE ASSY., L.H.
10	1930245	2	NUT, Hex, Centerlock, 1/2-20
11	1673014	1	AXLE PIVOT ASSY., L.H. (Incl. Ref. Nos. 6 & 7)
12	1677262	2	SPACER, Axle Link
13	1922127	2	CAPSCREW, Hex Hd., 5/16-18 x 1-3/4, Gr. 5
14	1923362	2	NUT, Hex, Centerlock, 5/16-18
15	1916950	4	Nut, Hex, 3/8-16
16	1676519	2	CAP, Hub
17	932577	4	RING, Retaining, Heavy Duty
18	1676520	2	RETAINER, Hub Cap
19	172586	AR	WASHER, Shim, 1" I.D. x 1-5/8" O.D. x 1/32" (Use as Required - Qty.)
20	1669512	2	FRONT WHEEL & TIRE ASSY., 16 x 6.50-8 (Incl. Ref. Nos. 22, 23 & 24)
21	1685404	2	BEARING
22	1669851	2	WHEEL ASSY., w/ Bearings (Incl. Ref. No. 21)
23	1678809	2	TIRE, 16 x 6.50-8
24	172353	2	VALVE STEM & CAP
25	1676435	2	WASHER, Heat Treated
26	1922648	2	CAPSCREW, Hex Hd., 3/8-16 x 4
27	1960362	2	NUT, Hex, Flange Lock, 1/2-13
28	1703215	1	LINK, Axle
29	1703324	1	SHAFT
30	1911386	2	WASHER, 3/4
31	1927732	2	RING, Retaining, 3/4
32	1703322	1	SPACER
33	1673015	1	AXLE PIVOT ASSY., R.H. (Incl. Ref. Nos. 6 & 7)
34	1703754	1	SPINDLE ASSY., R.H.
35	1702603	1	HITCH SUPPORT ASSY.
36	1679811	1	FITTING, Lube, 45, 1/4", Drive Type

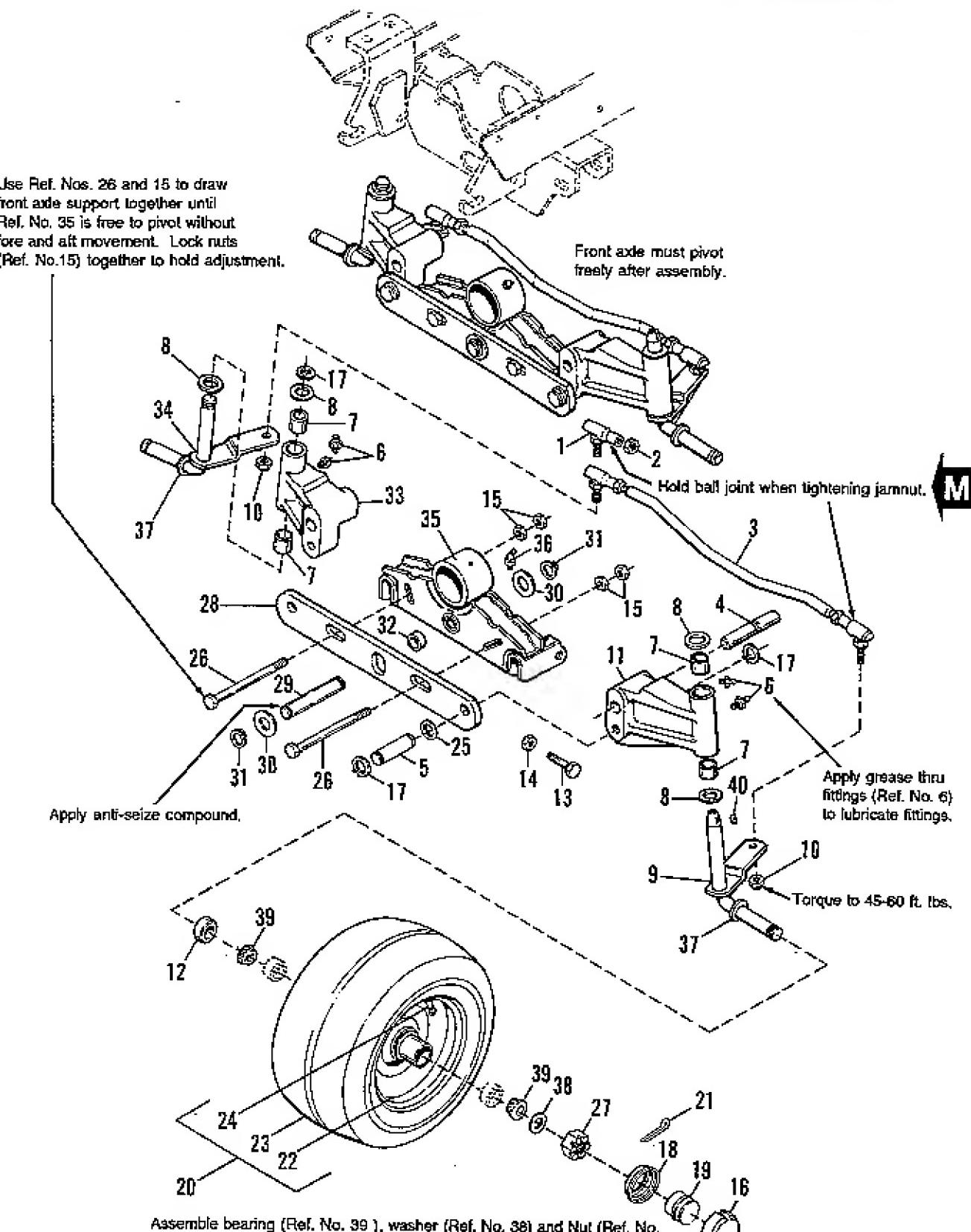
*Used on 1691250 after serial no. 1203.

*Used on 1691357 after serial no. 1511.

*Used on 1691380 after serial no. 1196.

*Used on 1691381 after serial no. 2019.

*Used on 1691528 after serial no. 1456.

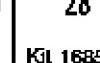
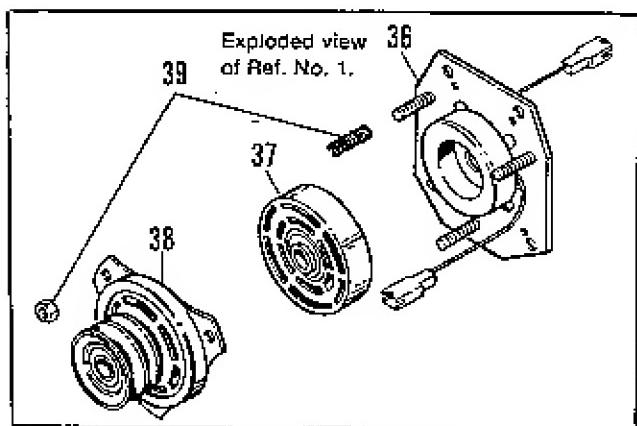


Ref. No.	Part No.	Qty.	Description
1	1677206	2	BALL JOINT ASSY.
2	1919262	2	NUT, Hex, Jam, 1/2-20
3	1659726	1	TIE ROD ASSY. (Incl. Ref. No. 1 & 2)
4	1677464	2	PIN, Axle Pivot
5	1703787	2	PIN, Axle Pivot
6	912808	4	FITTING, Lube, 1/4-28
7	168103	4	BUSHING, Spindle
8	1919394	4	WASHER, 1-1/32 x 1-5/8 x 1/16
9	1705849	1	SPINDLE ASSY. L.H., (Includes Ref. No. 37)
10	1930245	2	NUT, Hex, Centerlock, 1/2-20
11	1705830	1	AXLE PIVOT ASSY., L.H. (Incl. Qty 2 of Ref. Nos. 6 & 7)
12	168108	2	SEAL, Oil
13	1922127	2	CAPSCREW, Hex Hd., 5/16-18 x 1-3/4, Gr. 5
14	1923362	2	NUT, Hex, Centerlock, 5/16-18
15	1916950	4	Nut, Hex, 3/8-16
16	1676519	2	CAP, Hub, Cover
17	932577	5	RING, Retaining, Heavy Duty
18	1704699	2	RETAINER, Hub Cap
19	177724	2	HUBCAP
20	1704290	2	FRONT WHEEL & TIRE ASSY., 16 x 6.50-8 (Incl. Ref. Nos. 22, 23 & 24)
21	923500	2	PIN, Cotter, 1/8 x 1 3/4
22	1705851	2	WHEEL ASSY., w/ Bearings (Incl. Ref. No. 39)
23	1678809	2	TIRE, 16 x 6.50-8
24	172353	2	VALVE STEM & CAP
25	1960076	2	WASHER, 1 1/32 x 1 3/4 x 7 Ga.
26	1922648	2	CAPSCREW, Hex Hd., 3/8-16 x 4
27	1960387	2	NUT, Hex, Slotted Hd., 3/4-16
28	1703215	1	LINK, Axle
29	1703324	1	SHAFT
30	1911386	2	WASHER, 3/4 I. D.
31	1927732	2	RING, Retaining, 3/4 I. D.
32	1703322	1	SPACER
33	1705832	1	AXLE PIVOT ASSY., R.H. (Incl. Qty 2 of Ref. Nos. 6 & 7)
34	1705850	1	SPINDLE ASSY., R.H. (Includes Ref. No. 37)
35	1702603	1	HITCH SUPPORT ASSY.
36	1679811	1	FITTING, Lube, 45°, 1/4", Drive Type
37	168100	2	COLLAR, Seal, Spindle Assy.
38	1663189	2	WASHER
39	170835	4	BEARING, Cone
40	930871	1	KEY, Hi-Pro, 1/4 x 3/4

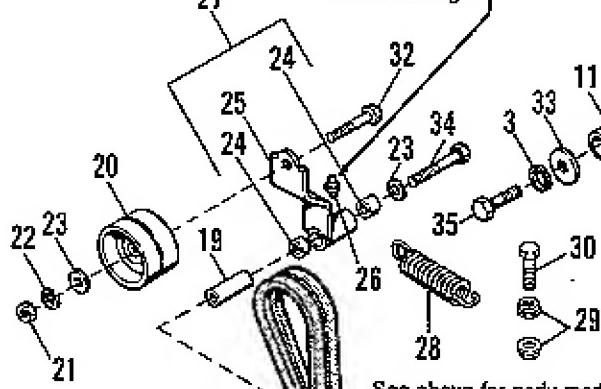
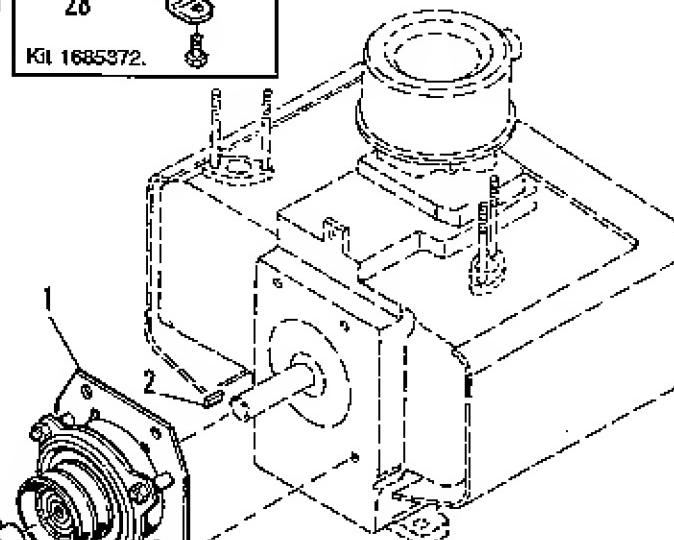
Early Model Configuration

To service, see Ref. No. 28.

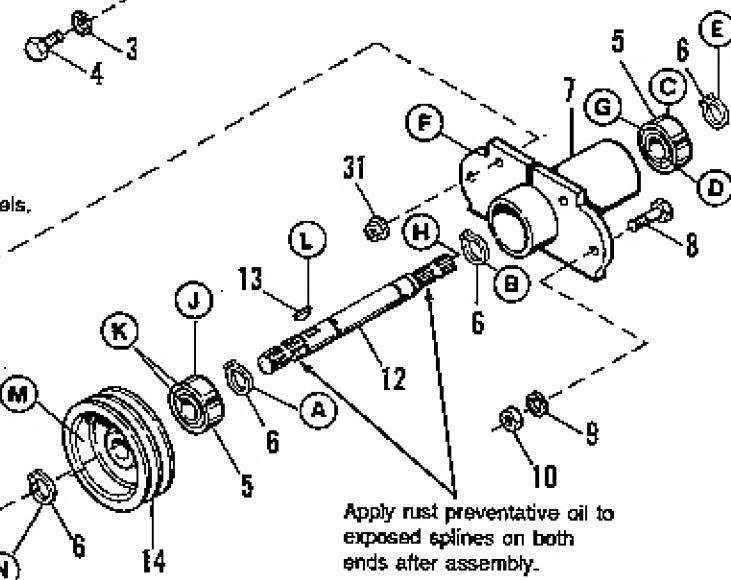
NOTE: Use standard hardware torque spec. chart unless otherwise noted.



**Apply grease thru fitting
(Ref. No. 26) to lubricate
lever bearings.**



See above for early models.



Apply rust preventative oil to exposed splines on both ends after assembly.

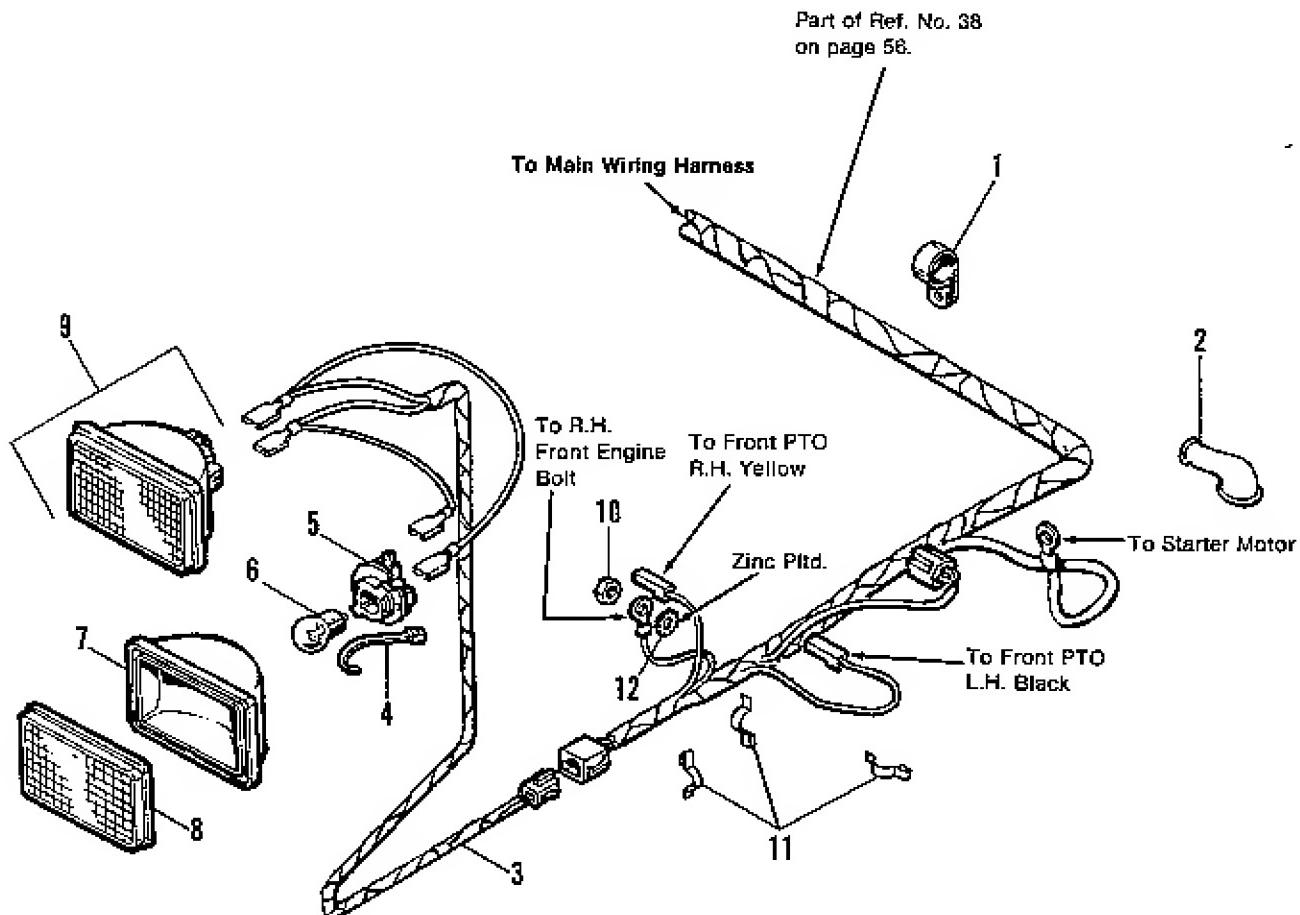
ASSEMBLY INSTRUCTIONS: (Refer to Exploded View)

1. Install retaining rings "A" & "B".
 2. Press bearing "C" on shaft to retaining ring "B". Press against inner race ("D") only.
 3. Install retaining ring "E".
 4. Press housing "F" onto bearing "C". Support bearing and shaft at outer race "G" and shaft at "H" to prevent axial loading of bearing.
 5. Press bearing "J" on shaft & in housing to retaining ring "A". Press at inner & outer races (K) equally while supporting bearing "C" at outer race "G" and shaft at "H" to prevent any axial loading of bearing while pressing.
 6. Install key "L".
 7. Press pulley "M" on shaft to bearing "J" while supporting shaft at "H".
 8. Install retaining ring "N".
 9. Allowable end play - 1/8" MAX.

Ref. No.	Part No.	Qty.	Description
1	1674750	1	CLUTCH, Electric (Incl. Ref. Nos. 36, 37, 38 & 39)
2	154096	1	KEY, Sq., 1/4 x 1/4 x 29/32
3	1918199	5	LOCKWASHER, 7/16
4	1920676	4	CAPSCREW, Hex Hd., 7/16-14 x 1
5	528126	2	BEARING, Ball, 1-3/16 x 2-7/16 x 5/8
6	927742	4	RING
7	1674105	1	HOUSING & PLATE ASSY.
8	1921176	2	CAPSCREW, Hex Hd., 1/2-13 x 1-1/4, Gr. 5
9	1916966	2	LOCKWASHER, 1/2
10	1916951	2	NUT, Hex, 1/2-13
11	1675759	1	SPACER, 1/16 I.D. x 1-3/8 O.D. x 5/16
12	1674103	1	SHAFT, Spline, PTO
13	930671	1	KEY, HI PRO, 1/4 x 3/4
14	1674724	1	PULLEY, PTO Drive
15	178012	2	CLIP, Pin, Safety
16	1676549	2	LINK & PIN ASSY., Guard
17	1674726	1	BELT SET, PTO Drive (Matched Set of 2)
18	1676546	1	GUARD ASSY.
19	1676833	1	SPACER, 3/8 x 5/8 x 1-3/4
20	1674736	1	PULLEY, Idler, 3-1/4 Dia.
21	1916950	1	NUT, Hex, 3/8-16
22	1916965	1	LOCKWASHER
23	1924940	2	WASHER, 13/32
24	1675352	2	BUSHING, Idler Arm
25		1	IDLER ARM ASSY. (See Ref. No. 27)
26	9211133	1	FITTING, Grease
27	1676837	1	IDLER ARM ASSY. (Incl. Ref. Nos. 24 & 25)
28	1664661	1	SPRING, Tension (Later Models - refer to Illustration)
	1685372	1	SPRING, Tension (Early Models - refer to Illustration)
29	1931211	2	NUT, Hex, Flange Whizlock, 3/8-16
30	1921971	1	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
31	1930645	1	NUT, Hex, Flange, 3/8-16
32	1923701	1	SCREW, Hex Hd., 3/8-16 x 2
33	1960053	1	WASHER, 15/32 ID x 1-3/4 OD x 1/4
34	1921972	1	SCREW, Hex Hd., 3/8-16 x 2-1/2, Gr. 5
35	1920353	1	SCREW, Hex Hd., 7/16-20 x 1-1/2, Gr. 5

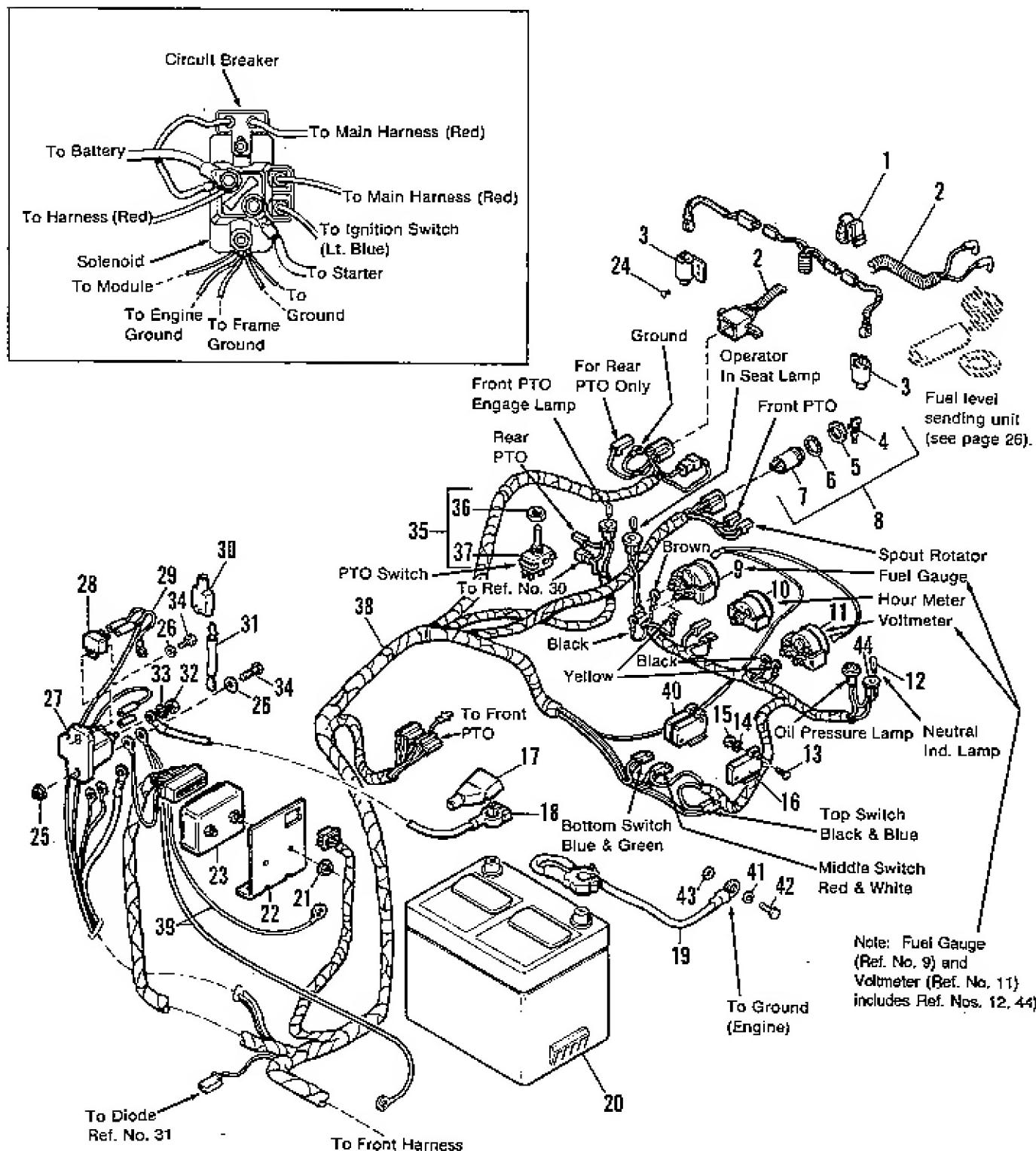
Repair Parts

36	1679008	FIELD ASSEMBLY
37	1679009	ROTOR ASSEMBLY
38	1679010	ARMATURE & BRAKE DRUM
39	1679011	ACCESSORY KIT (Nut & Springs)



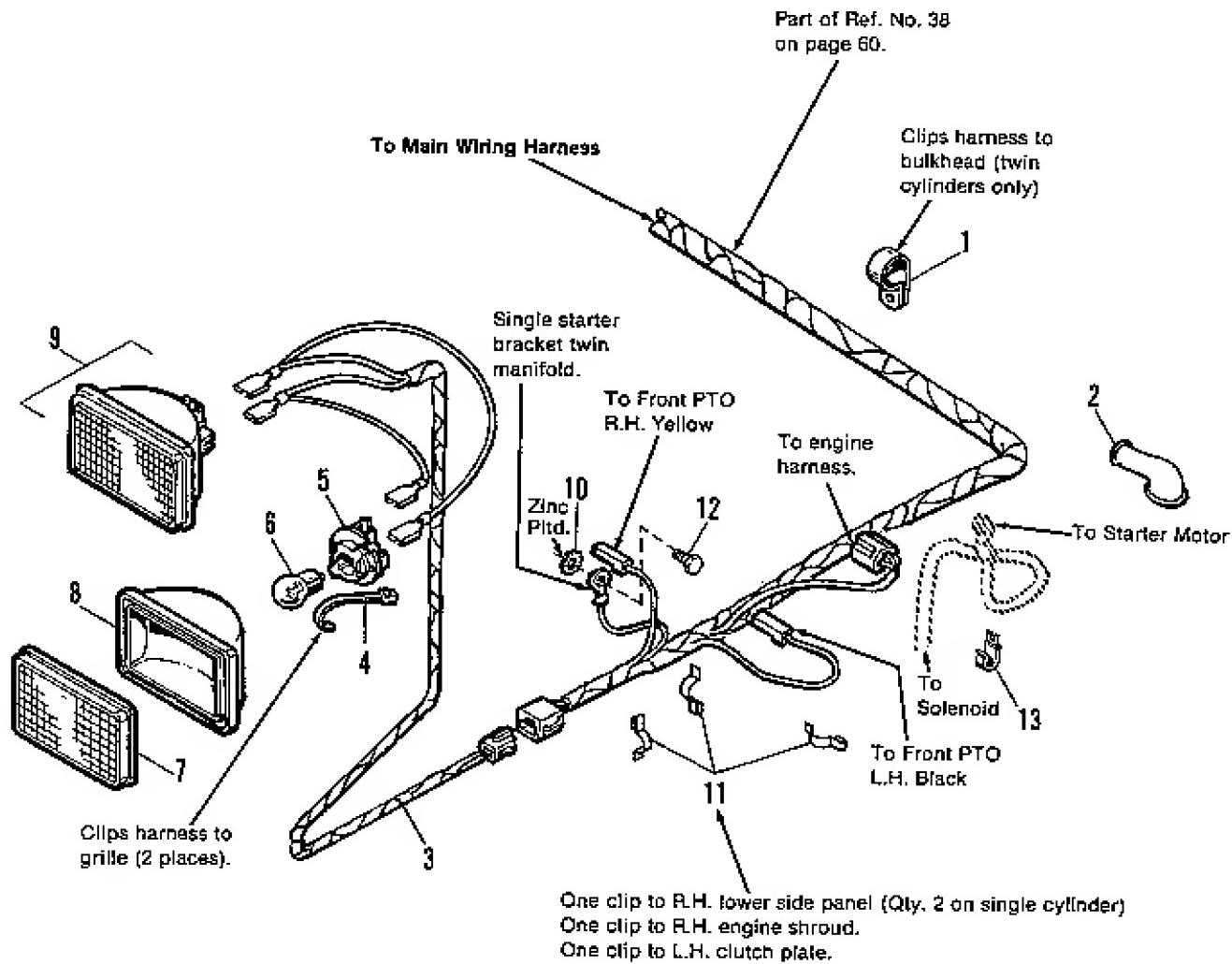
NOTE: Use standard hardware torque spec. chart unless otherwise noted.

Ref. No.	Part No.	Gty.	Description
1	926917	1	CLAMP
2	122023	1	COVER, Terminal
3	1674358	1	HARNESS, Headlight
4	932747	2	TIE WRAP
5	1677370	2	SOCKET, Bulb
6	1677371	2	BULB, 12.8V
7	1677369	2	REFLECTOR
8	1677368	2	LENS, Clear
9	1674363	2	HEADLIGHT ASSY. (Incl. Ref. No. 5, 6, 7 & 8)
10	1960251	1	NUT, Jam, Center Lock, 3/8-16
11	934683	3	CLAMP
12	920427	1	LOCKWASHER, External Tooth



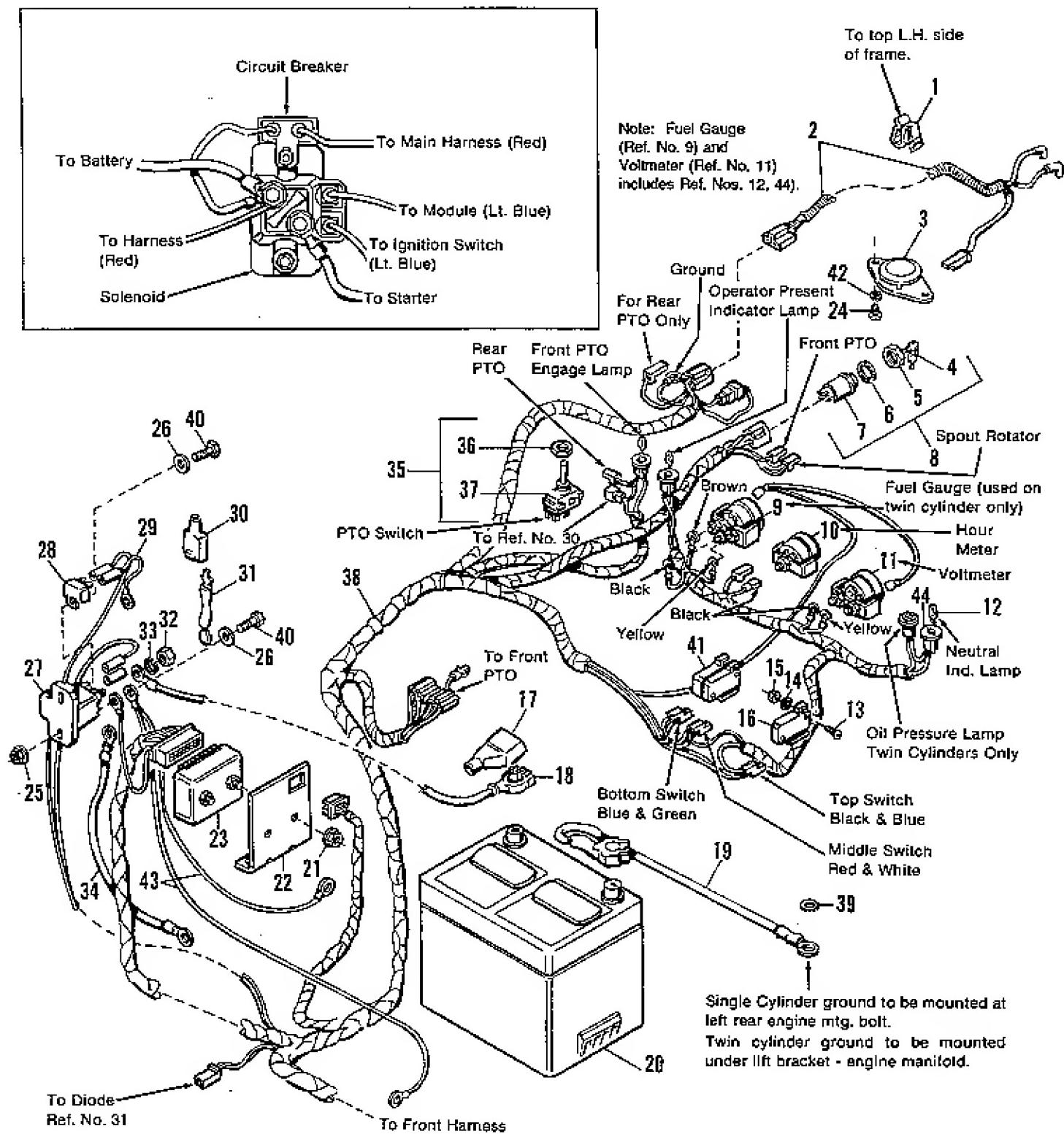
NOTE: Use standard hardware torque spec. chart unless otherwise noted.

Ref. No.	Part No.	Qty.	Description
1	172434	2	CLIP, Tinnerman
2	1677478	1	HARNESS, Rear
3	1675739	2	SAFETY SWITCH (Seat), Operator Present
4	1677665	1	KEY, Set
5	1677662	1	NUT, Special
6	1918906	1	LOCKWASHER
7		1	SWITCH, Ignition (See Ref. No. 8)
8	1672243	1	SWITCH & KEY ASSY., Ignition
9	1674369	1	GAUGE, Fuel
10	1701525	1	HOUR METER
11	1676132	1	VOLTMETER
12	1676130	6	LAMP
13	1960014	2	SCREW, R.H., #5-24 x 1-1/2
14	1930947	2	LOCKWASHER, #5
15	1931003	2	NUT, Hex, #5-24
16	1676123	1	SWITCH, Interlock (Under Dash) Shift Lever
17	1673698	1	PROTECTOR, Battery (Red)
18	1678993	1	CABLE (Battery to Solenoid)
19	1678967	1	CABLE (Battery to Ground)
20	1685289	1	BATTERY (491 AMP Cold Crank Rating)
21	1960222	2	NUT, w/Washer, #8-32
22	1677479	1	BRACKET, Interlock, Mod.
23	1672655	1	INTERLOCK MODULE
24	1930416	4	SCREW, Tap, #10-32
25	1930641	2	NUT, Hex, Flange, Whizlock, 1/4-20
26	1921319	1	WASHER, Plain, 1/4
27	1685290	1	SOLENOID (12 Volt DC)
28	1665238	1	BREAKER, Circuit
29	1665237	1	WIRE ASSY. (Circuit Breaker to Solenoid)
30	122182	1	CONNECTOR, 3 Way
31	1677484	1	WIRE ASSY., Diode
32	1920263	2	NUT, Hex, Jam, 5/16-24
33	917356	2	LOCKWASHER, 5/16, Pltd.
34	1923341	2	CAPSCREW, Hex Hd., 1/4-20 x 3/4
35	1675800	1	SWITCH ASSY., PTO (incl. Ref. Nos. 36 & 37)
36	1677663	1	NUT, Special
37		1	SWITCH, PTO (See Ref. No. 35)
38	1672578	1	WIRING HARNESS (Main)
39	1678974	1	WIRE ASSY., Harness to Engine Ground
40	1700160	1	DUAL INTERLOCK SWITCH
41	916964	1	LOCKWASHER, 1/4
42	1921959	1	CAPSCREW, Hex, Ext., 1/4-20 x 5/8
43	921880	1	LOCKWASHER, Ext., 1/4, Zinc Pltd.
44	1707389	2	BULB HOLDER



NOTE: Use standard hardware
torque spec. chart unless
otherwise noted.

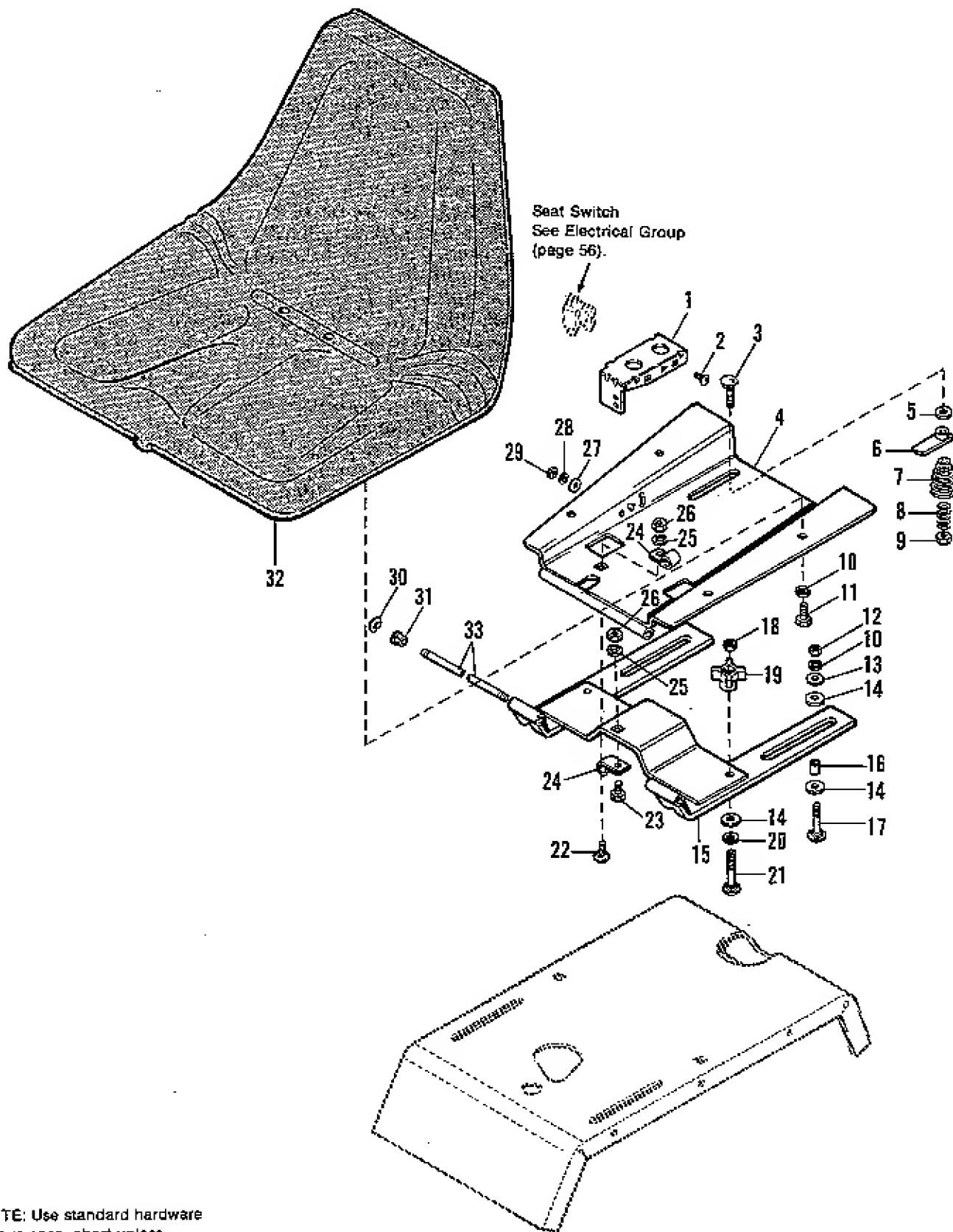
Ref. No.	Part No.	Qty.	Description
1	926917	1	CLAMP (Twin Cylinder Models only)
2	122023	1	COVER, Terminal
3	1674358	1	HARNESS, Headlight
4	932747	2	TIE WRAP
5	1677370	2	SOCKET, Bulb
6	1677371	2	BULB, 12.8V
7	1677369	2	LENS, Clear
8	1677368	2	REFLECTOR
9	1674363	2	HEADLIGHT ASSY. (Incl. Ref. No. 5, 6, 7 & 8)
10	921880	1	WASHER, Ext. 1/4 Zinc Pltd.
11	934683	4	CLAMP
12	928428	1	SCREW, Tapite, 1/4-20 x 3/8 Zinc Pltd.
13	1666835	1	"J" CLAMP (1691250, 1691357 only)



Ref. No.	Part No.	Cty.	Description
1	172434	2	CUP, Tinnerman
2	1700994	1	HARNESS, Rear
3	*1700636	1	SAFETY SWITCH (Seat), Operator Present
	**1703373	1	SAFETY SWITCH (Seat), Operator Present
4	122203	1	KEY, Set
5	122234	1	NUT, Special
6	1918906	1	LOCKWASHER
7		1	SWITCH, Ignition (See Ref. No. 8)
8	1701256	1	SWITCH & KEY ASSY., Ignition (Incl. Ref. Nos. 4 thru 7)
9	1674369	1	GAUGE, Fuel (Twin cylinder Models Only)
10	1701525	1	HOUR METER
11	1676132	1	VOLTMETER
12	1676130	4	LAMP (Qty. 3 used on Single Cylinder Models)
13	1960014	2	SCREW, R.H., #5-24 x 1-1/2
14	1930947	2	LOCKWASHER, #5
15	1931003	2	NUT, Hex, #5-40
16	1676123	1	SWITCH, Interlock (Under Dash) Shift Lever
17	1673698	1	PROTECTOR, Battery (Red)
18	1678993	1	CABLE (Battery to Solenoid)
19	1701309	1	CABLE (Battery to Ground)
20	1685289	1	BATTERY (491 AMP Cold Crank Rating)
21	1960222	2	NUT, w/Washer, #8-32
22	1677479	1	BRACKET, Interlock, Mod.
23	1701130	1	INTERLOCK MODULE
24	1926025*	2	SCREW, Rnd. Hd., 1/4-20 x 1/2
	1960357**	2	SCREW, Rnd. Hd., 1/4-20 x 3/4
25	1930641	2	NUT, Hex, Flange, Whizlock, 1/4-20
26	1921319	1	WASHER, Plain, 1/4 (Qty. 2 on 1691250, 1691357 only)
27	1665290	1	SOLENOID (12 Volt DC)
28	1665238	1	BREAKER, Circuit
29	1665237	1	WIRE ASSY. (Circuit Breaker to Solenoid)
30	122182	1	CONNECTOR, 3 Way
31	1677484	1	WIRE ASSY., Diode
32	920438	2	NUT, Hex, Jam, 5/16-24 Ptd.
33	917356	2	LOCKWASHER, 5/16, Ptd.
34	1701330	1	CABLE, (Solenoid to Starter)
35	1675800	1	SWITCH ASSY., PTO (Incl. Ref. Nos. 36 & 37)
36	1677663	1	NUT, Special
37		1	SWITCH, PTO (See Ref. No. 35)
38	1679878	1	WIRING HARNESS (Main)
39	920427	1	LOCKWASHER, Ext., 3/8 Ptd. (Used on 1691250, 1691357 only)
	920426	1	LOCKWASHER, Ext., 5/16 Ptd. (Used on 1691380, 1691381, 1691528, 1691710, 1691924, 1691926, 1691928, 1691953)
40	1923341	2	CAPSCREW, Hex Hd., 1/4-20 x 3/4
41	1700160	1	DUAL INTERLOCK SWITCH
42	1921880	2	LOCKWASHER, Ext. 1/4
43	1678974	1	WIRE ASSY., Harness to Engine Ground (Not used on Mfg. Nos. 1691924, 1691926, 1691928, & 1691953)
44	1707389	2	BULB HOLDER

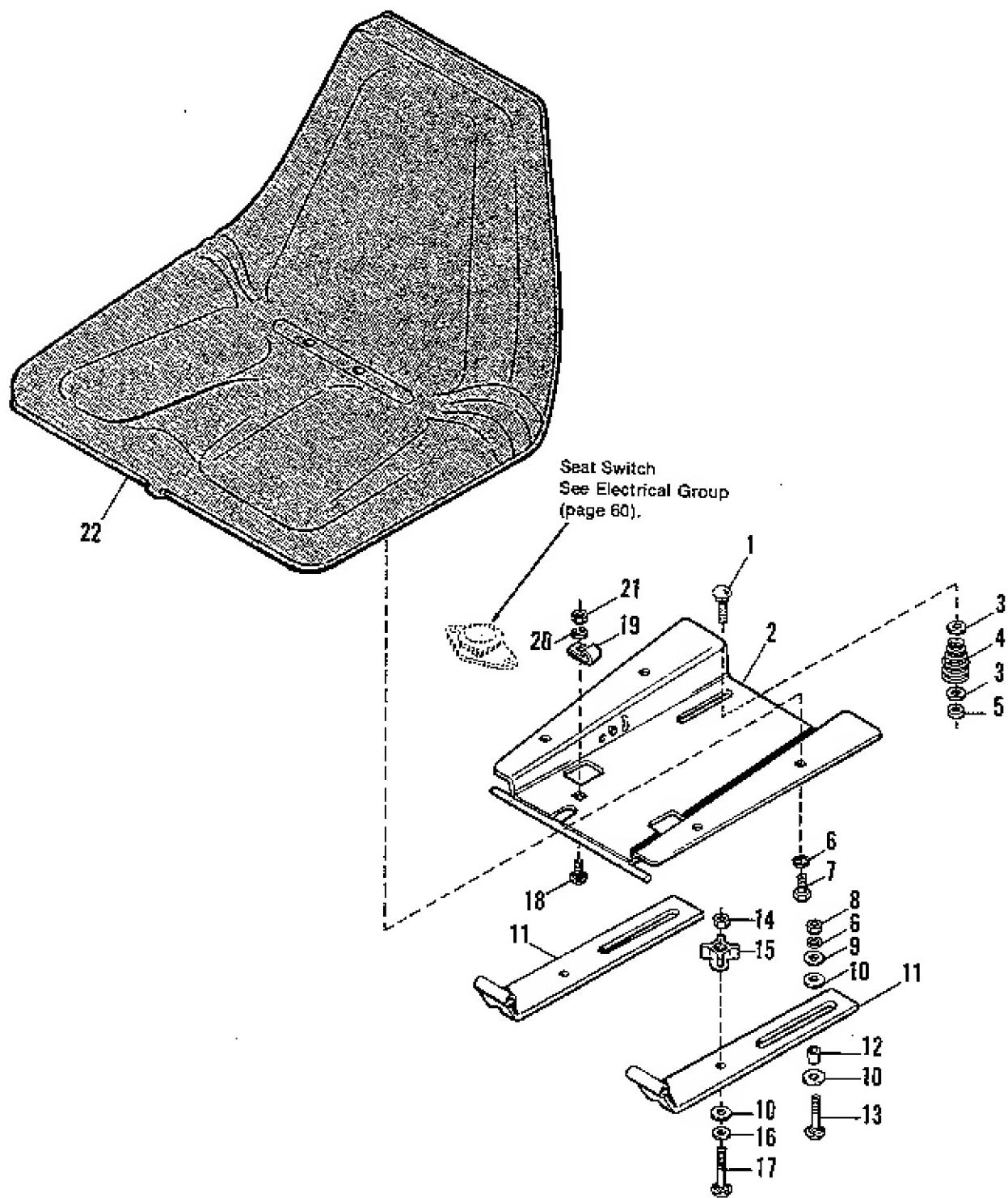
* Used on 1691250 before serial no. 1204
Used on 1691357 before serial no. 1512
Used on 1691380 before serial no. 1137
Used on 1691381 before serial no. 2020
Used on 1691528 before serial no. 1457

** Used on 1691250 after serial no. 1203
Used on 1691357 after serial no. 1511
Used on 1691380 after serial no. 1136
Used on 1691381 after serial no. 2019
Used on 1691528 after serial no. 1456
Used on all Mfg. No. 1691710, 1691924, 1691926, 1691928, & 1691953)



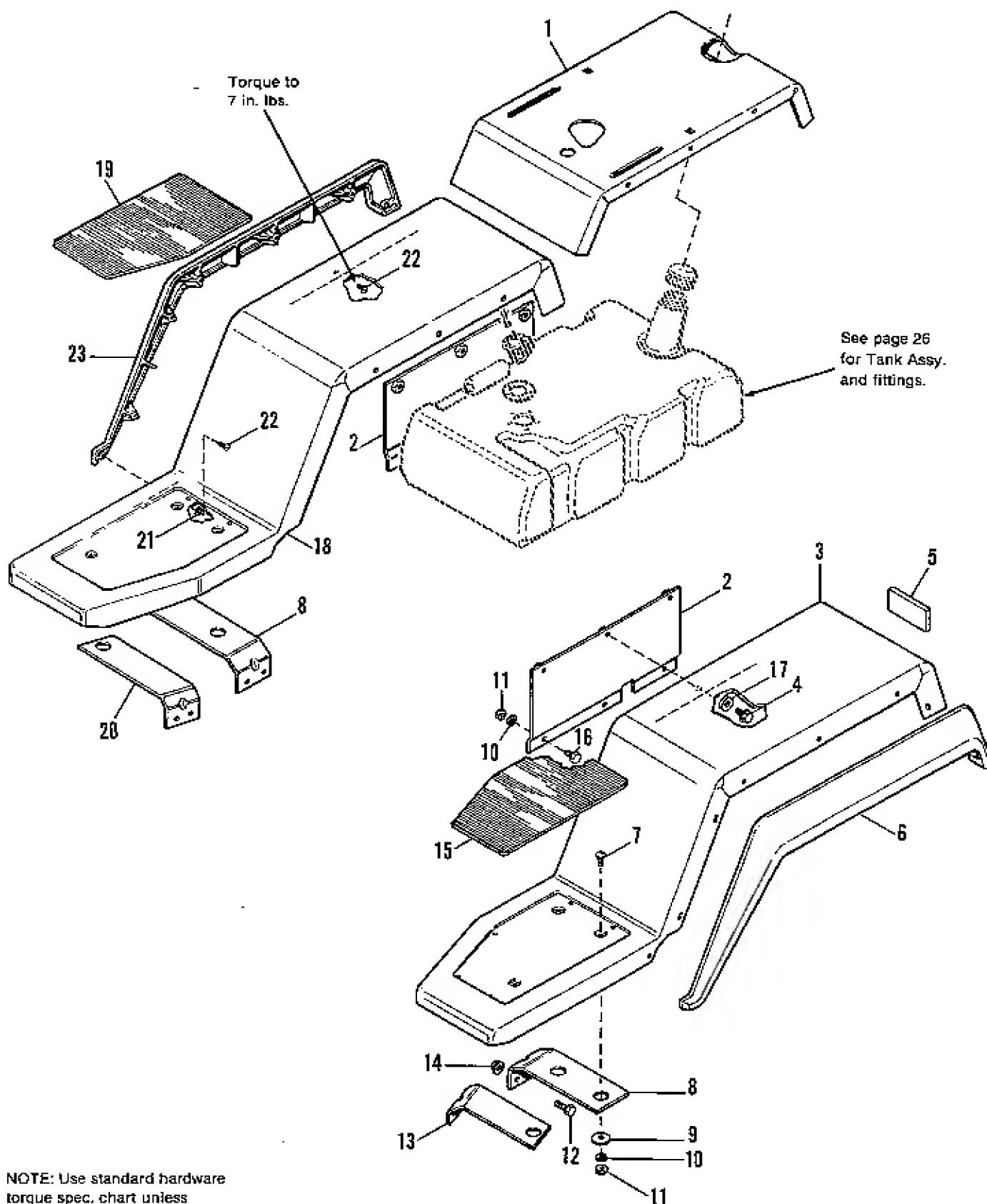
NOTE: Use standard hardware
torque spec. chart unless
otherwise noted.

Ref. No.	Part No.	Qty.	Description
1	1676761	2	BRACKET, Seat Switch
2	1960253	4	BOLT, Carriage, #10-24 x 1/2, Gr. 5
3	1960223	2	BOLT, Carriage, 5/16-18 x 1-1/4, Gr. 5
4	1676763	1	HINGE & PIVOT ASSY., Upper Seat
5	1960044	2	WASHER, Plain, 21/64 ID x 1-1/4 OD x 14 Ga.
6	1676993	2	LEVER ASSY., Seat Spring
7	1675734	2	SPRING, Seat
8	1677012	2	SPRING, Seat Switch
9	1935048	2	NUT, Centerlock, Flange, 5/16-18
10	1917356	6	LOCKWASHER, 5/16
11	1925205	4	CAPSCREW, Hex Hd., 5/16-18 x 5/8, Gr. 5
12	1917372	2	NUT, Hex, 5/16-18
13	1919381	2	WASHER, Flat, 11/32 x 1 x 1/8
14	960171	6	WASHER
15	1676759	1	HINGE ASSY., Lower Seat
16	1980236	2	SPACER, Seat Hinge
17	1931335	2	BOLT, Carriage, 5/16-18 x 1, Gr. 5
18	1923362	2	NUT, Centerlock, 5/16-18
19	1677181	2	KNOB, Seat
20	983988	2	NUT, Push On
21	1960273	2	BOLT, Carriage, 5/16-18 x 2-1/4
22	1931317	1	BOLT, Carriage, 1/4-20 x 3/4, Gr. 5
23	1921959	1	CAPSCREW, 1/4-20 x 5/8, Gr. 5
24	1676952	2	CLAMP, Closed
25	1916964	2	LOCKWASHER, 1/4
26	1916622	2	NUT, Hex, 1/4-20
27	1923212	2	WASHER, Flat, #10
28	1917365	4	LOCKWASHER, #10
29	1916621	4	NUT, Hex, #10-24
30	928197	2	RING, Retaining
31	1677022	2	BEARING, Nylon
32	1703023	1	SEAT
33	1676765	1	ROD, Seat Hinge



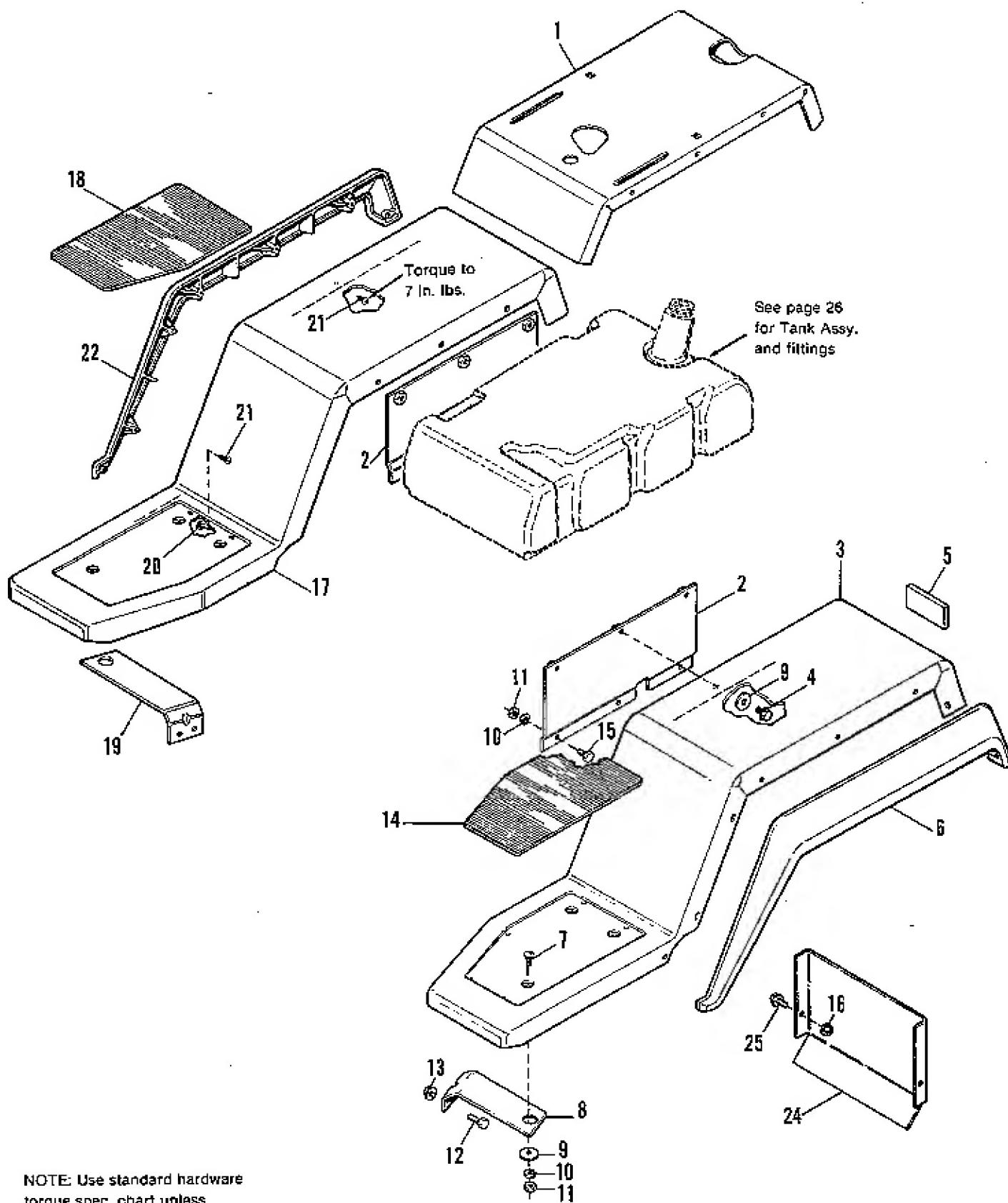
NOTE: Use standard hardware
torque spec. chart unless
otherwise noted.

Ref. No.	Part No.	Qty.	Description
1	1960223	2	BOLT, Carriage, 5/16-18 x 1-1/4, Gr. 5
2	1701585	1	HINGE & PIVOT ASSY., Upper Seat
3	1960044	4	WASHER, Plain, 21/64 I.D. x 1-1/4 O.D. x 14 Ga.
4	1675734	2	SPRING, Seat
5	1927557	2	NUT, Centerlock, Flange, Large Whiz, 5/16-18
6	1917356	4	LOCKWASHER, 5/16
7	1925205	4	CAPSCREW, Hex Hd., 5/16-18 x 5/8, Gr. 5
8	1917372	2	NUT, Hex, 5/16-18
9	1919381	2	WASHER, Flat, 11/32 x 1 x 1/8
10	960171	6	WASHER
11	1701548	2	HINGE ASSY., Lower Seat
12	1960236	2	SPACER, Seat Hinge
13	1931335	2	BOLT, Carriage, 5/16-18 x 1, Gr. 5
14	1923362	2	NUT, Centerlock, 5/16-18
15	1677181	2	KNOB, Seat
16	933988	2	NUT, Push On
17	1960273	2	BOLT, Carriage, 5/16-18 x 2-1/4
18	1931317	1	BOLT, Carriage, 1/4-20 x 3/4, Gr. 5
19	1676952	1	CLAMP, Closed
20	1916964	1	LOCKWASHER, 1/4
21	1916622	1	NUT, Hex, 1/4-20
22	1703023	1	SEAT



NOTE: Use standard hardware
torque spec. chart unless
otherwise noted.

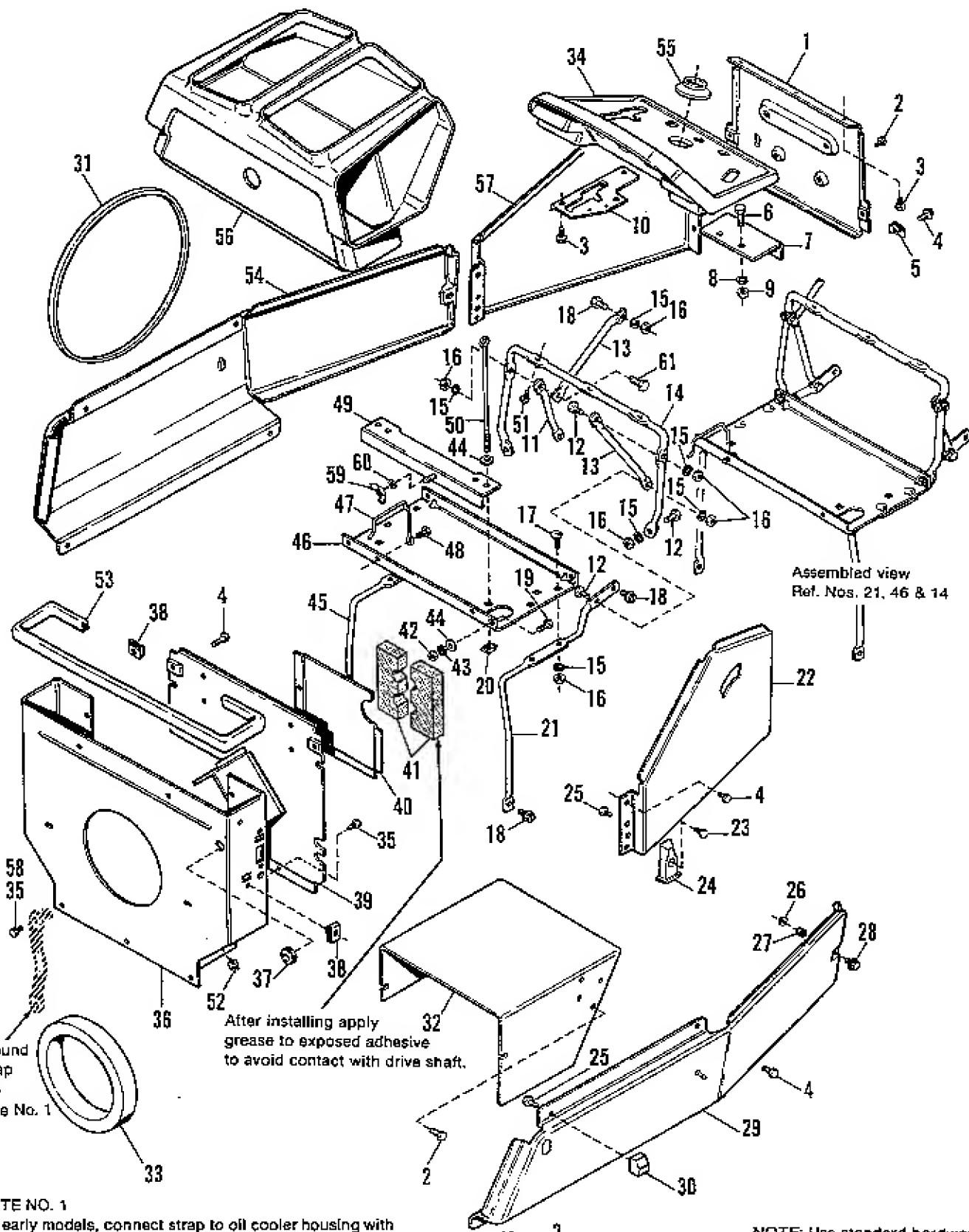
Ref. No.	Part No.	Qty.	Description
1	1675726	1	COVER, Fuel Tank
2	1675730	2	FENDER SUPPORT ASSY.
3	1676408	1	FENDER, L.H.
4	1664847	6	SCREW, Taplite, 5/16-18 x 3/4
5	1676267	2	REFLECTOR, Rear
6	1675896	1	FENDER SKIRT, L.H.
7	1931333	6	BOLT Carriage, 5/16-18 x 3/4
8	1676304	2	FOOTREST SUPPORT, Rear
9	1920283	10	WASHER, Flat, 11/32 x 1-1/2 x 7/64
10	1917356	12	LOCKWASHER, 5/16
11	1917372	12	NUT, 5/16-18
12	1921966	8	CAPSCREW, Hex Hd., 3/8-16 x 7/8
13	1676302	1	FOOTREST SUPPORT, Front, L.H.
14	1928352	8	LOCKNUT, Whiz, 3/8-16
15	1676425	1	PAD, Footrest, L.H.
16	1921332	6	CAPSCREW, Hex Hd., 5/16-18 x 3/4
17	1920283	6	WASHER
18	1676407	1	FENDER, R.H.
19	1676424	1	PAD, Footrest, R.H.
20	1676303	1	FOOTREST SUPPORT, Front, R.H.
21	1916964	2	LOCKWASHER, 1/4
22	1950256	14	SCREW, Plastite, 1/4-10 x 5/8
23	1675897	2	FENDER SKIRT, R.H.



NOTE: Use standard hardware
torque spec. chart unless
otherwise noted.

Fenders & Footrest Group

Ref. No.	Part No.	Qty.	Description
1	1675726	1	COVER, Fuel Tank
2	1675730	2	FENDER SUPPORT ASSY.
3	1676408	1	FENDER, L.H.
4	1664847	6	SCREW, Taptite, 5/16-18 x 3/4
5	1675267	2	REFLECTOR, Rear
6	1675896	1	FENDER SKIRT, L.H. (except models with 26" tires)
	1706267	1	FENDER SKIRT, L.H. (models with 26" tires only)
7	1931333	2	BOLT Carriage, 5/16-18 x 3/4
8	1676302	1	FOOTREST SUPPORT, Front, L.H.
9	1920283	6	WASHER, Flat, 11/32 x 1-1/2 x 7/64
10	1917356	8	LOCKWASHER, 5/16
11	1917372	8	NUT, 5/16-18
12	1921966	8	CAPSCREW, Hex Hd., 3/8-16 x 7/8
13	1928352	8	LOCKNUT, Whiz, 3/8-16
14	1676425	1	PAD, Footrest, L.H.
15	1921332	6	CAPSCREW, Hex Hd., 5/16-18 x 3/4
16	1935255	2	NUT, Flange Whizlock, 5/16-18
17	1676407	1	FENDER, R.H.
18	1676424	1	PAD, Footrest, R.H.
19	1676303	1	FOOTREST SUPPORT, Front, R.H.
20	1916964	2	LOCKWASHER, 1/4
21	1960256	14	SCREW, Plastite, 1/4-10 x 5/8
22	1675897	2	FENDER SKIRT, R.H. (except models with 26" tires)
	1706268	2	FENDER SKIRT, R.H. (models with 26" tires only)
24	1706269	1	COVER, Rear Frame
25	1930591	2	SCREW, Flange Whizlock, 5/16-18 x 1



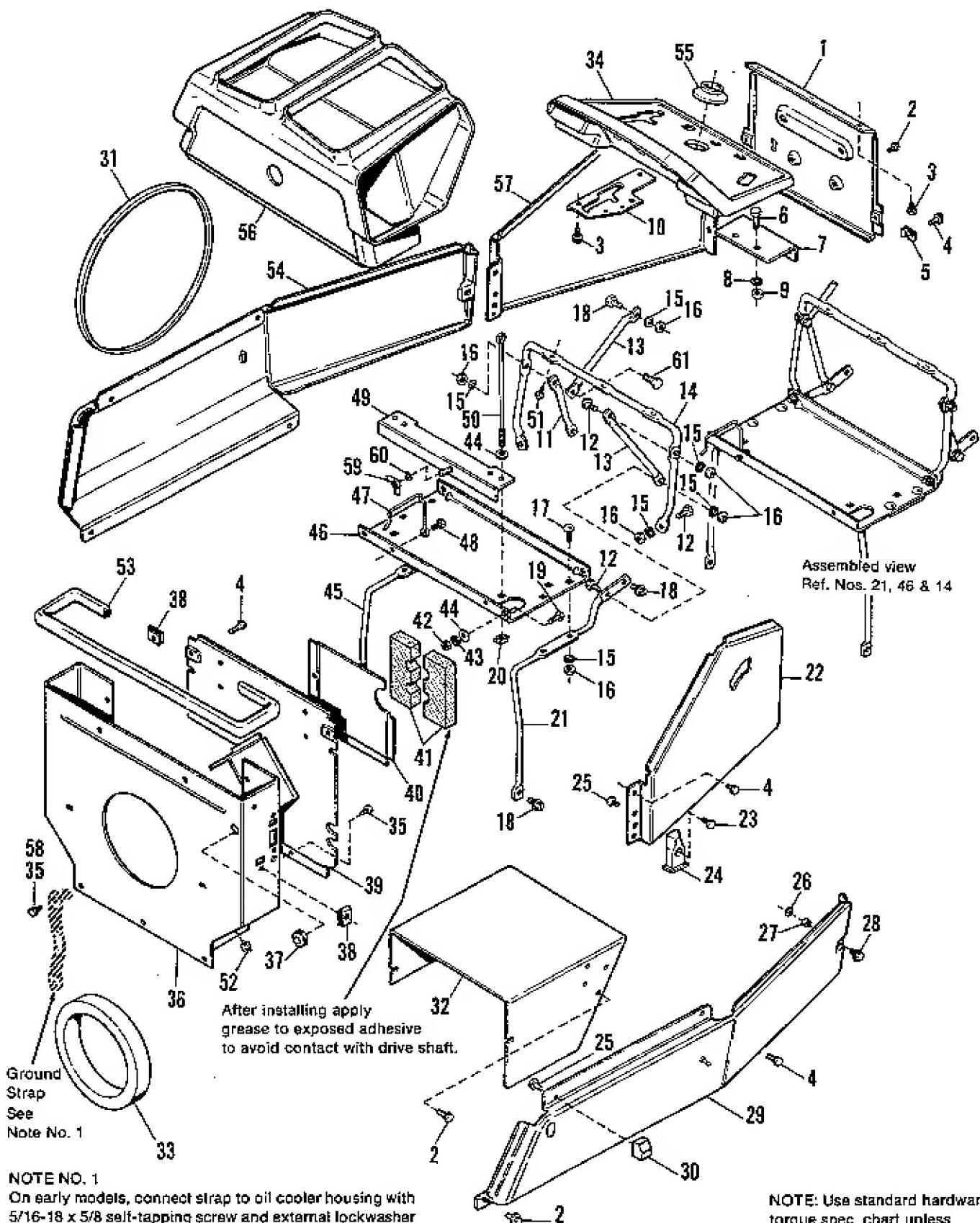
NOTE NO. 1

On early models, connect strap to oil cooler housing with 5/16-18 x 5/8 self-tapping screw and external lockwasher #920426. For later models, see Frame Group.

NOTE: Use standard hardware torque spec. chart unless otherwise noted.

Ref. No.	Part No.	Qty.	Description
1	1675868	1	PANEL, Rear Dash
2	1927429	7	SCREW, Hex, Taptite, 1/4-20 x 5/8
3	1960256	6	SCREW, Hex, Plastite, 1/4-10 x 5/8 (Qty. 6 on 1691018)
4	1676860	9	SCREW, Hex, Type "AB", 1/4-14 x 5/8
5	1960239	2	SPEED NUT, "J" Type, 14A
6	1921210	2	CAPSCREW, Hex Hd., 3/8-16 x 1
7	1675869	1	BRACKET, Mounting, Dash Panel, Rear
8	1916966	2	LOCKWASHER, 3/8
9	1916950	2	NUT, Hex, 3/8-16
10	1679708	1	PLATE, Speed Control Lever
11	1676865	1	BRACE, Dash Cap Support, R.H.
12	1921333	4	CAPSCREW, Hex Hd., 5/16-18 x 1
13	1676740	2	BRACE, Dash Cap Support, L.H.
14	1675871	1	SUPPORT, Dash Cap
15	1917356	11	LOCKWASHER, 5/16
16	1917372	11	NUT, Hex, 5/16-18
17	1931334	5	BOLT, Carriage, 5/16-18 x 7/8
18	1921332	1	CAPSCREW, Hex, Taptite, 5/16-18 x 3/4
19	1923341	2	CAPSCREW, Hex Hd., 1/4-20 x 3/4
20	926022	2	SPEED NUT, Retaining, 1/4-20
21	1675855	1	SUPPORT, Battery Tray, L.H.
22	1675862	1	DASH PANEL, Upper, L.H.
23	1678113	2	SCREW, Hex, 1/4 x 1
24	1676525	2	GUIDE, Spacer, Hood
25	1960034	6	SCREW, Hex, Plastite, #10-14 x 1/2
26	1676436	2	PUSHNUT, .250
27	1960234	2	SPACER, Side Panel
28	1676855	2	SCREW, Hex, Taptite, 1/4-20 x 1
29	1679869	1	PANEL ASSY., L.H.
30	1677068	2	SPACER, Hood/Side Panel
31	1676785	1	STRAP, Plenum
32	1676635	1	COVER, Tunnel (1691017 only)
	1676357	1	COVER, Tunnel (1691018 only)

See page 75 for Ref. Nos. 23 thru 61.



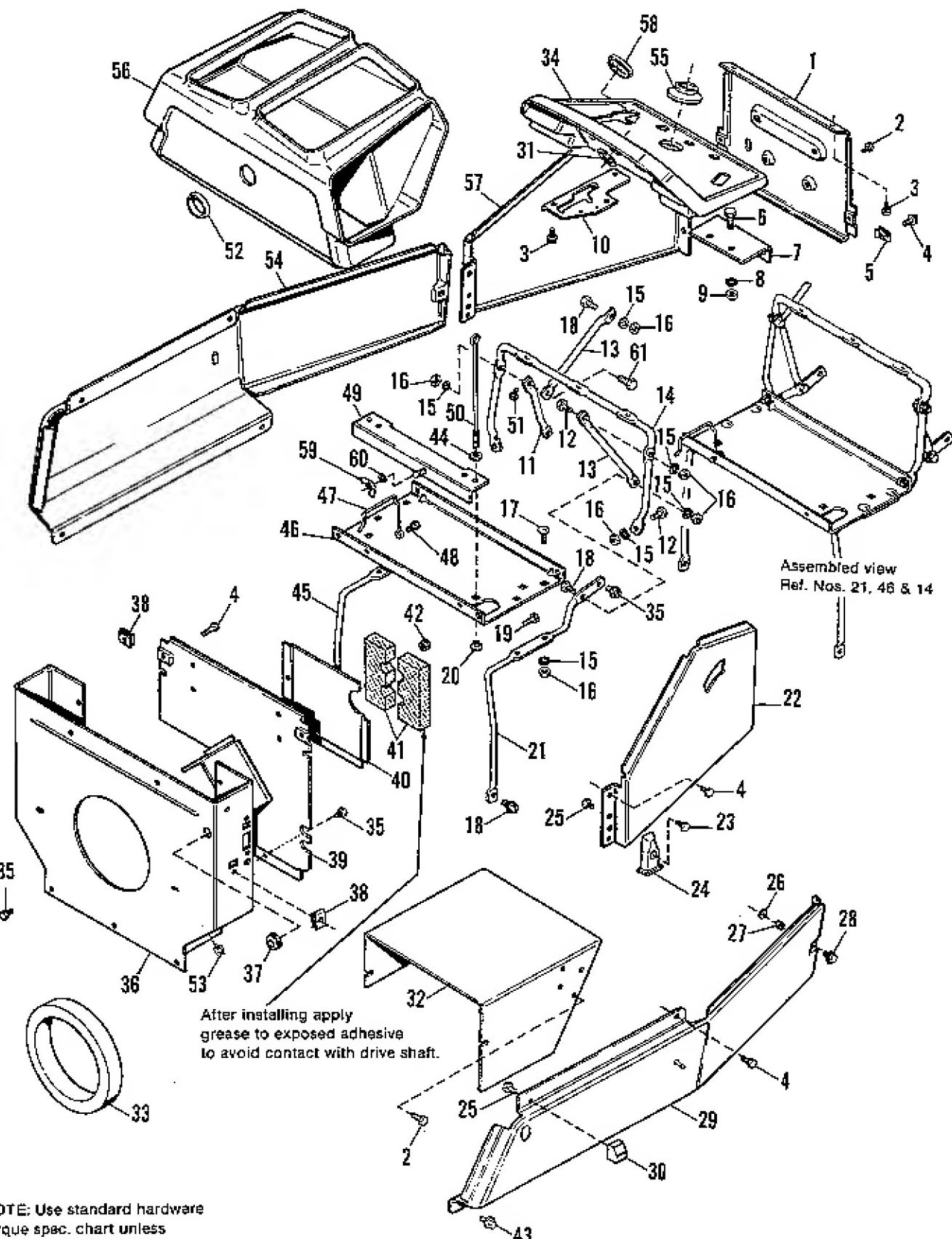
NOTE NO. 1

On early models, connect strap to oil cooler housing with 5/16-18 x 5/8 self-tapping screw and external lockwasher #920426. For later models, see Frame Group.

NOTE: Use standard hardware torque spec. chart unless otherwise noted.

Ref. No.	Part No.	Qty.	Description
33	1676534	1	SEAL, Engine, Bulkhead
34	1675870	1	CAP, Dash
35	1684847	7	SCREW, Hex, TapTite, 5/16-18 x 3/4
36	1675846	1	BULKHEAD
37	936426	2	GROMMET, 1/2" ID
38	1676547	9	SPEED NUT, "U" Type, 14A
39	1676546	1	PANEL ASSY., Bulkhead
40	1676545	1	PANEL, Clean Out
41	1675852	2	SEAL, Drive Shaft
42	1916622	2	NUT, Hex, 1/4-20
43	1916964	2	LOCKWASHER, 1/4
44	1917377	4	WASHER, Plain, 1/4
45	1675856	1	SUPPORT, Battery Tray, R.H.
46	1675854	1	TRAY, Battery
47	1676333	2	GUIDE, Plenum
48	1925003	2	SCREW, Hex, TapTite, 1/4-20 x 1/2
49	1669831	1	HOLD DOWN, Battery
50	1676338	2	ROD, Battery Hold Down
51	1960255	3	SCREW, Hex, Plastite, 1/4-10 x 3/4
52	1701347	1	CLIP, Routing, Snap-In
53	1676431	1	SEAL, Plenum, Bulkhead
54	1677060	1	LOWER PANEL ASSY., R.H.
55	1676418	1	BOOT, Steering Stem
56	1679907	1	PLENUM, Air Induction
57	1675863	1	DASH PANEL, Upper, R.H.
58	1930801	1	SCREW, Hex TapTite, 5/16-18 x 5/8
59	960293	1	NUT, Wing, 1/4-20
60	1980151	1	WASHER, 1/4
61	1921977	1	CAPSCREW, Hex, 5/16-18 x 1-1/4

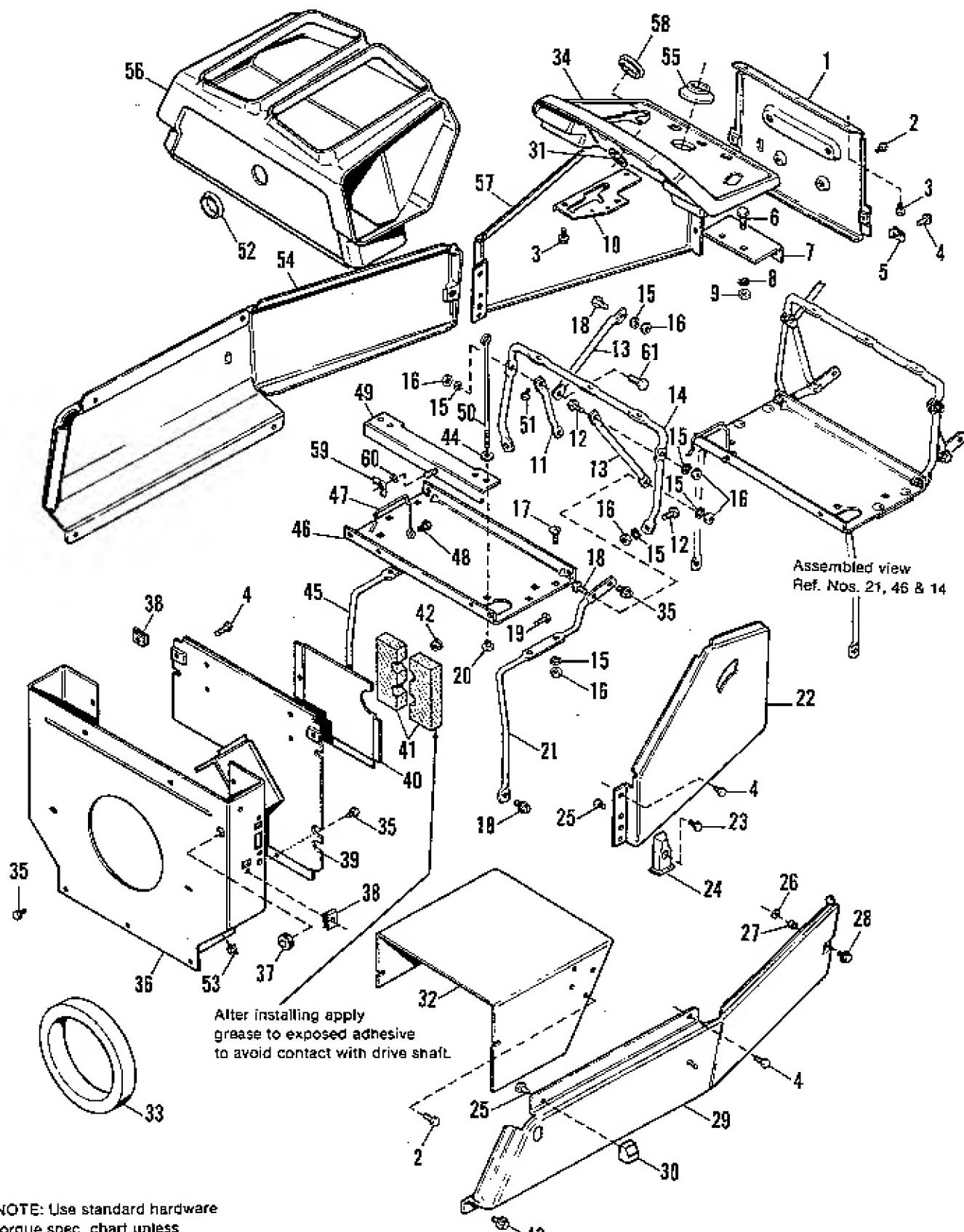
See page 73 for Ref. Nos. 1 thru 32.



NOTE: Use standard hardware torque spec. chart unless otherwise noted.

Ref. No.	Part No.	Qty.	Description
1	1675868	1	PANEL, Rear Dash
2	1927429	4	SCREW, Hex, Taptite, 1/4-20 x 5/8 (Qty. 7 on 1691381 & 1691710 only)
3	1960256	5	SCREW, Hex, Plastite, 1/4-10 x 5/8
4	1676860	9	SCREW, Hex, Type "AB", 1/4-14 x 5/8
5	1960239	2	SPEED NUT, "J" Type, 14A
6	1921210	2	CAPSCREW, Hex Hd., 3/8-16 x 1
7	1675869	1	BRACKET, Mounting, Dash Panel, Rear
8	1916965	2	LOCKWASHER, 3/8
9	1916950	2	NUT, Hex, 3/8-16
10	1679708	1	PLATE, Speed Control Lever
11	1676865	1	BRACE, Dash Cap Support, R.H.
12	1921333	3	CAPSCREW, Hex Hd., 5/16-18 x 1
13	1676740	2	BRACE, Dash Cap Support, L.H.
14	1675871	1	SUPPORT, Dash Cap
15	1917356	11	LOCKWASHER, 5/16
16	1917372	11	NUT, Hex, 5/16-18
17	1931334	5	BOLT, Carriage, 5/16-18 x 7/8
18	1921332	2	CAPSCREW, Hex, Taptite, 5/16-18 x 3/4
19	1923341	2	CAPSCREW, Hex Hd., 1/4-20 x 3/4
20	1704349	2	NUT, Plastic, 1/4-20
21	1675855	1	SUPPORT, Battery Tray, L.H.
22	1675862	1	DASH PANEL, Upper, L.H.
23	1678113	2	SCREW, Hex, 1/4 x 1
24	1676525	2	GUIDE, Spacer, Hood
25	1960034	6	SCREW, Hex, Plastite, #10-14 x 1/2
26	1676436	2	PUSHNUT, .250
27	1960234	2	SPACER, Side Panel
28	1929783	2	SCREW, Hex, Taptite, 1/4-20 x 1
29	1679869	1	PANEL ASSY., L.H.
30	1677068	2	SPACER, Hood/Side Panel
31	1701465	1	RING, Spiral, Retaining (1691250, 1691357 only)
32	1676635	1	COVER, Tunnel (1691250, 1691357, 1691380, 1691528, 1691924 only)
	1703904	1	COVER, Tunnel (1691381, 1691710, 1691926, 1691928, 1691953 only)

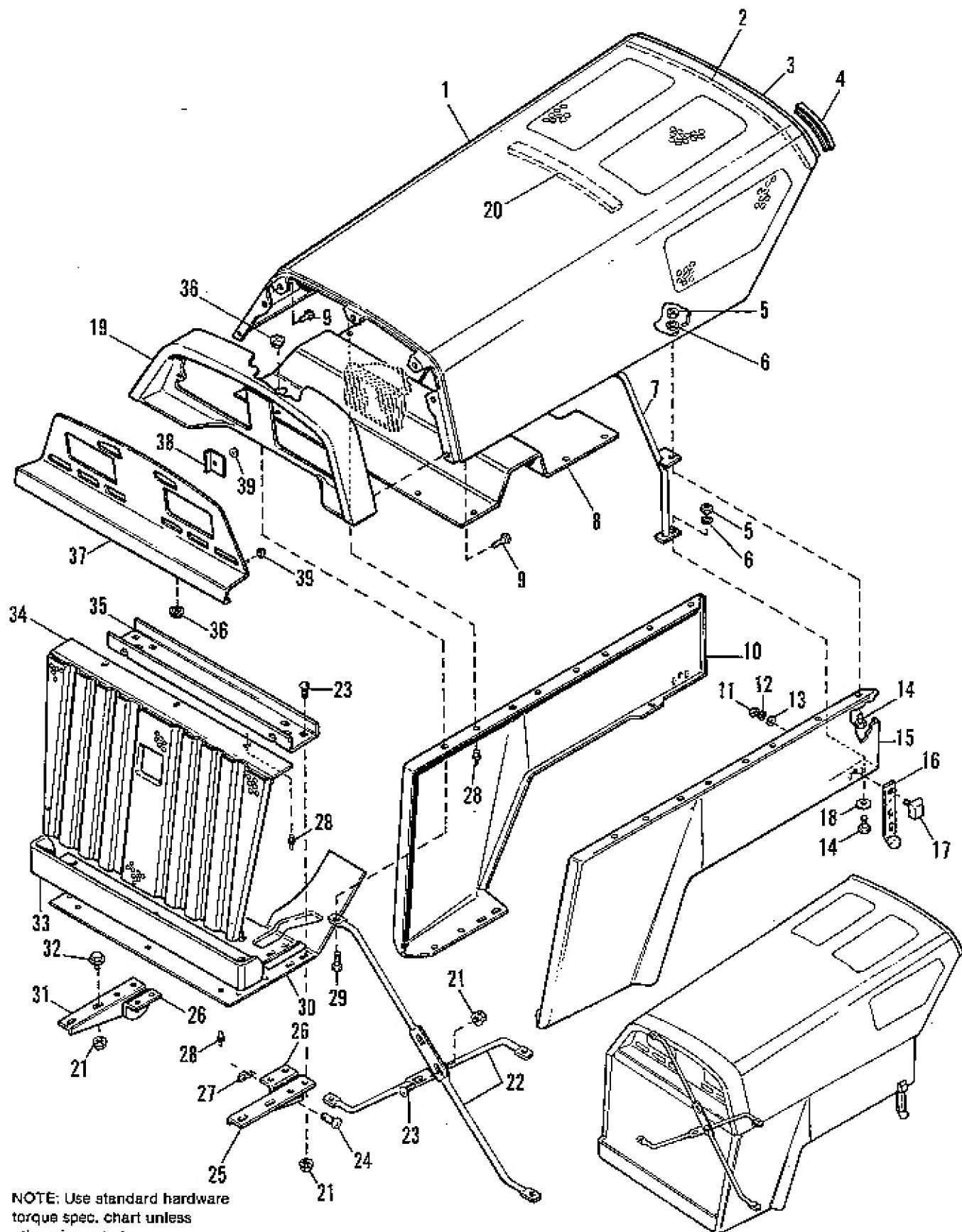
See page 79 for Ref. Nos. 33 thru 61.



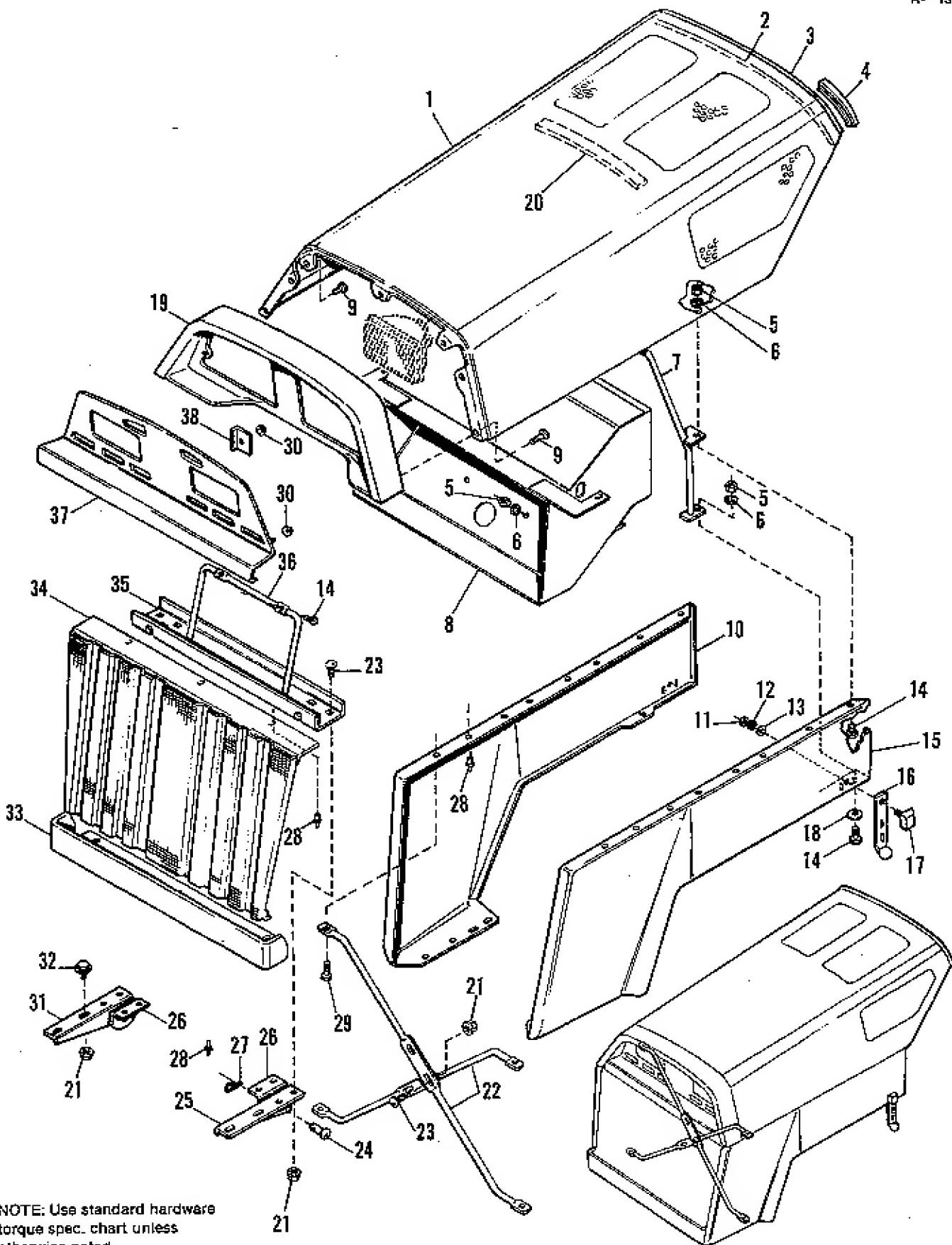
NOTE: Use standard hardware
torque spec. chart unless
otherwise noted.

Ref. No.	Part No.	Qty.	Description
33	1676534	1	SEAL, Engine, Bulkhead (All models except 1691250 & 1691357)
	1702216	1	SEAL, Engine Bulkhead (1691250, 1691357 only)
34	1675870	1	CAP, Dash (all models except 1691710, 1691928)
	1703415	1	CAP, Dash (1691710, 1691928 only)
35	1664847	7	SCREW, Hex, Taplite, 5/16-18 x 3/4
36	1675846	1	BULKHEAD
37	936426	2	GROMMET, 1/2" I.D. (all models except 1691250, 1691357)
38	1676647	9	SPEED NUT, "U" Type, 14A
39	1676646	1	PANEL ASSY., Bulkhead
40	1700754	1	PANEL, Clean Out
41	1701856	2	SEAL, Drive Shaft
42	1930641	2	NUT, Hex, Flange Whizlock, 1/4-20
43	1676856	4	SCREW, Hex, Taplite, 1/4-20 x 5/8 (Qty. 3 on 1691381, 1691710, 1691926, 1691928)
44	1921319	2	WASHER, Plain, 1/4 x 5/8 x 3/64
45	1675856	1	SUPPORT, Battery Tray, R.H.
46	1675854	1	TRAY, Battery
47	1676333	2	GUIDE, Plenum
48	1925003	2	SCREW, Hex, Taplite, 1/4-20 x 1/2
49	1611762	1	HOLD DOWN, Battery
50	1676338	2	ROD, Battery Hold Down
51	1960255	3	SCREW, Hex, Plastite, 1/4-10 x 3/4
52	1700884	1	PLUG, Hole, Plenum (1691250, 1691357 only)
53	1701347	1	CLIP, Routing, Snapin, (1691250, 1691357 only)
54	1677060	1	LOWER PANEL ASSY., R.H.
55	1676418	1	BOOT, Steering Stem
56	1679907	1	PLENUM, Air Induction
57	1675863	1	DASH PANEL, Upper, R.H.
58	1657017	1	CAP (1691250, 1691357 only)
59	960293	1	NUT, Wing, 1/4-20
60	1960151	1	WASHER, 1/4
61	1921977	1	CAPSCREW, Hex, 5/16-18 x 1-1/4

See page 77 for Ref. Nos. 1 thru 32.



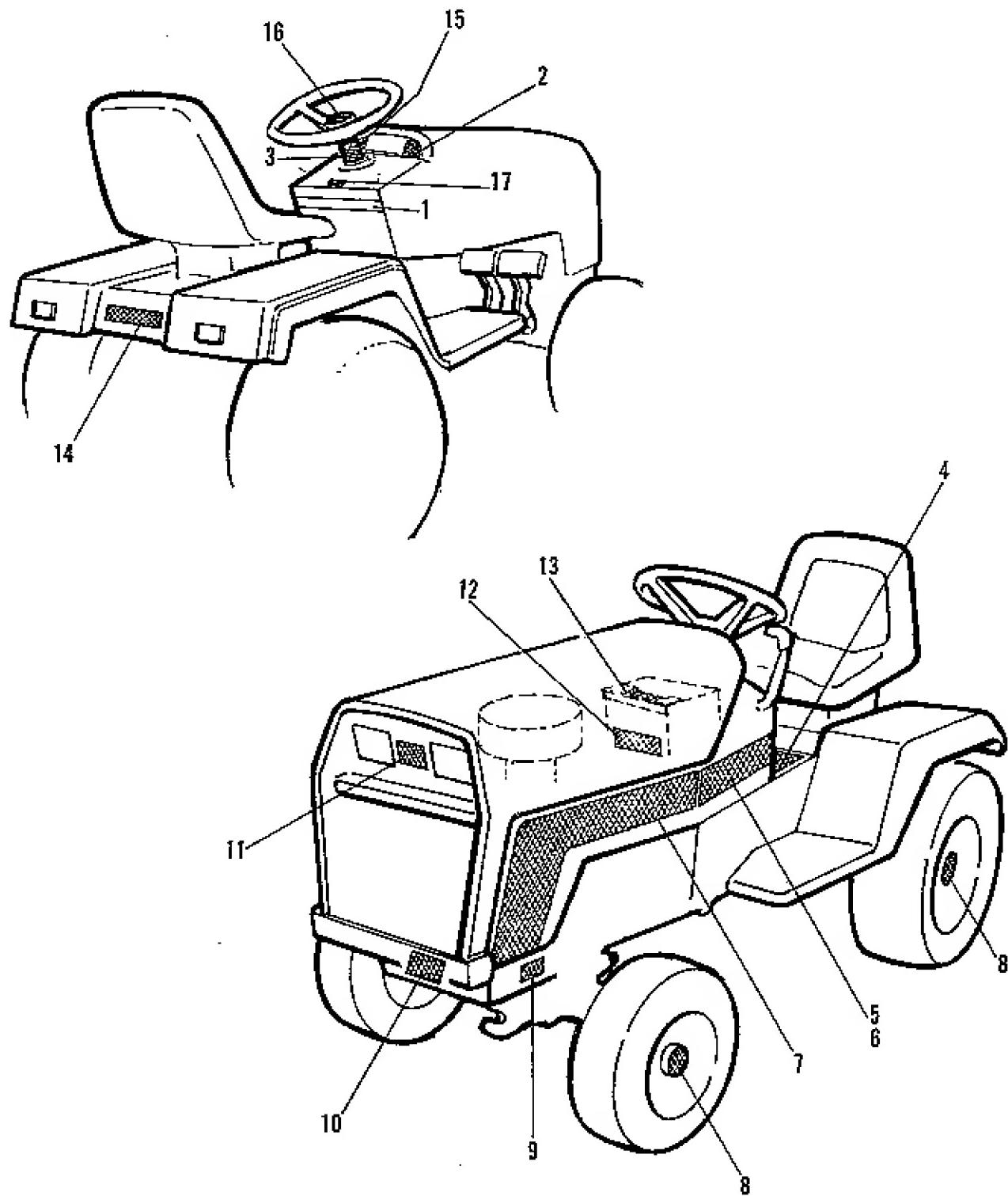
Ref. No.	Part No.	Qty.	Description
1	1675878	1	HOOD ASSY.
2	1679660	1	SEAL, Hood, Rear
3	1678638	1	DECAL, Hood Rear
4	1675394	1	MOLDING, Hood
5	1916622	4	NUT, Hex, 1/4-20
6	1916964	4	LOCKWASHER, 1/4
7	1678599	1	SUPPORT ROD ASSY., Hood
8	1675899	1	SHIELD, Muffler
9	1925003	7	SCREW, Hex, Taplite, 1/4-20 x 1/2
10	1675832	1	PANEL, Side, R.H.
11	1916621	2	NUT, Hex, #10-24
12	1917365	2	LOCKWASHER, #10
13	1960096	2	WASHER, 13/64 ID x 3/4
14	1921958	4	CAPSCREW, Hex Hd., 1/4-20 x 1/2
15	1675831	1	PANEL, Side, L.H.
16	171600	2	STRAP, Hood
17	1677672	2	COVER ASSY., Hood Strap
18	1921319	2	WASHER, Plain, 1/4 x 5/8 x 3/64
19	1676286	1	FRAME, Headlamps
20	1678625	1	SEAL, Hood Support
21	1960294	13	NUT, Hex, Flange Whizlock, 1/4-20
22	1676957	2	BRACE, Hood, Front
23	1931317	9	BOLT, Carriage, 1/4-20 x 3/4
24	163058	2	PIN, Lock (Clevis)
25	1676654	1	HINGE, Hood, Outer, L.H.
26	1676639	2	HINGE, Hood, Inner
27	1918196	2	PIN, Quick, 9/32 x 1-7/8
28	1675044	18	RIVET, Pop, 3/16
29	1930561	2	SCREW, Hex, Thd. Form, #14-3/4
30	1676284	1	SHIELD, Heat
31	1676653	1	HINGE, Hood, Outer, R.H.
32	1930594	4	SCREW, Hex, Fl. Whiz Lock, 1/4-20 x 3/4
33	1678528	1	BUMPER ASSY.
34	1676264	1	SCREEN ASSY., Grille (1691017, 1691018 only)
	1700787	1	SCREEN ASSY., Grille (1691380, 1691381, 1691528, 1691710, 1691924, 1691926, 1691928, 1691953)
35	1676638	1	SUPPORT, Stop, Hood
36	1677756	2	BUSHING, Universal
37	1676263	2	HEADLAMP INSERT ASSY.
38	1675932	4	CLIP, Headlamps, Mounting
39	1665253	8	PALNUT, Hex, Lock, #10-24



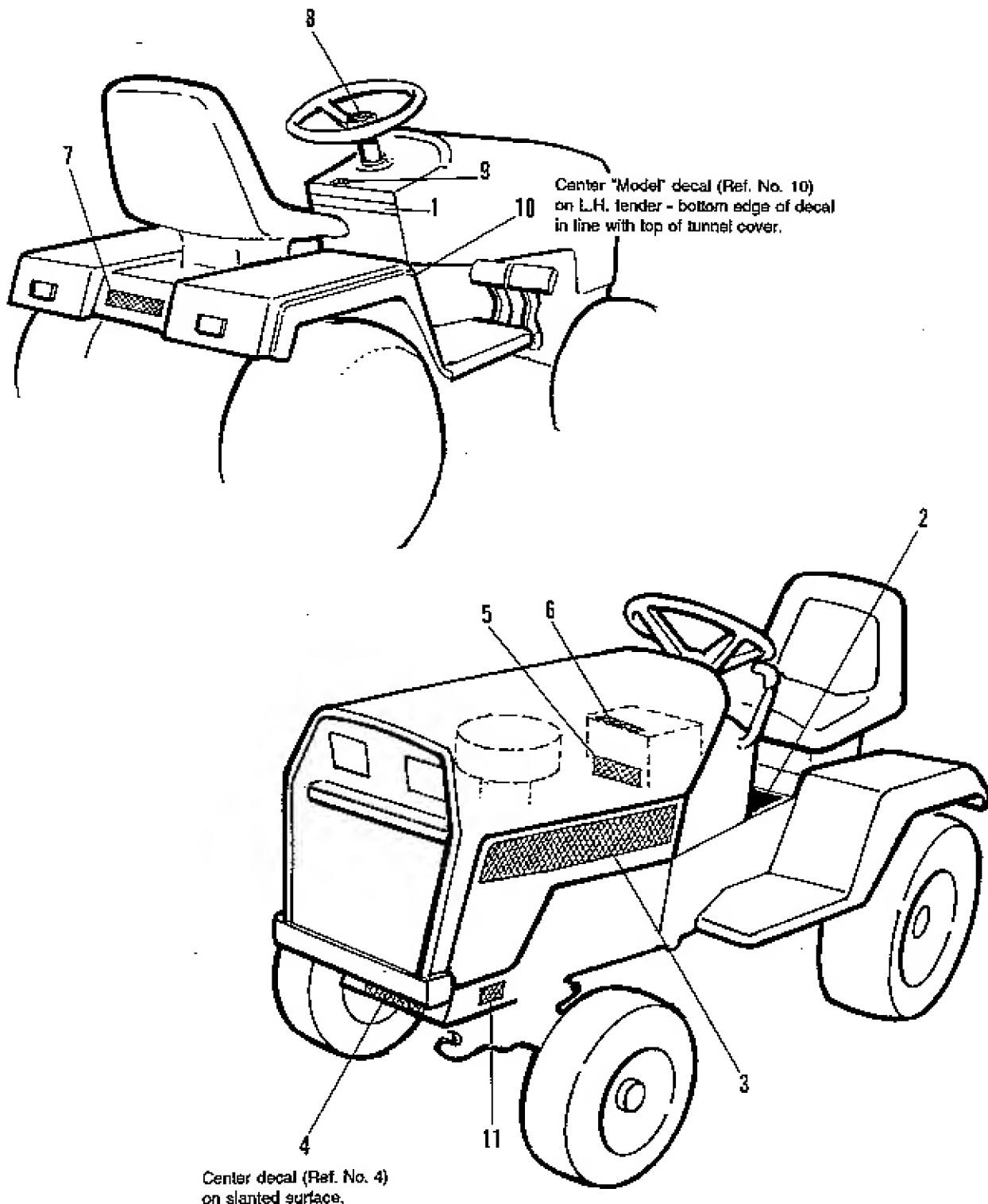
NOTE: Use standard hardware
torque spec. chart unless
otherwise noted.

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Ref. No.	Part No.	Qty.	Description
1	1675878	1	HOOD ASSY.
2	1679660	1	SEAL, Hood, Rear
3	1678638	1	DECAL, Hood Rear
4	1676394	1	MOLDING, Hood
5	1916622	6	NUT, Hex, 1/4-20
6	1916964	6	LOCKWASHER, 1/4
7	1678599	1	SUPPORT ROD ASSY., Hood
8	1701441	1	SHIELD ASSY.
9	1925003	7	SCREW, Hex, Taptite, 1/4-20 x 1/2
10	1675832	1	PANEL, Side, R.H.
11	1916621	2	NUT, Hex, #10-24
12	1917365	2	LOCKWASHER, #10
13	1960096	2	WASHER, 13/64 ID x 3/4
14	1921958	6	CAPSCREW, Hex Hd., 1/4-20 x 1/2
15	1675831	1	PANEL, Side, L.H.
16	171600	2	STRAP, Hood
17	1677672	2	COVER ASSY., Hood Strap
18	1921819	2	WASHER, Plain, 1/4 x 5/8 x 3/64
19	1676286	1	FRAME, Headlamps
20	1678625	1	SEAL, Hood Support
21	1960294	13	NUT, Hex, Flanga Whizlock, 1/4-20
22	1676957	2	BRACE, Hood, Front
23	1931317	9	BOLT, Carriage, 1/4-20 x 3/4
24	153058	2	PIN, Lock (Clevis)
25	1676654	1	HINGE, Hood, Outer, L.H.
26	1676639	2	HINGE, Hood, Inner
27	1918196	2	PIN, Quick, 3/32 x 1-7/8
28	1675044	18	RIVET, Pop, 3/16
29	1930561	2	SCREW, Hex, Thd. Form, #14-3/4
30	1665253	8	PALNUT, Hex, Lock, #10-24
31	1676653	1	HINGE, Hood, Outer, R.H.
32	1930594	4	SCREW, Hex, Fl. Whiz Lock, 1/4-20 x 3/4
33	1678528	1	BUMPER ASSY.
34	1700787	1	SCREEN ASSY., Grille
35	1676638	1	SUPPORT, Step, Hood
36	1701443	2	SUPPORT, Muffler Shield
37	1676263	2	INSERT ASSY., Headlamps
38	1675932	4	CLIP, Headlamps, Mounting

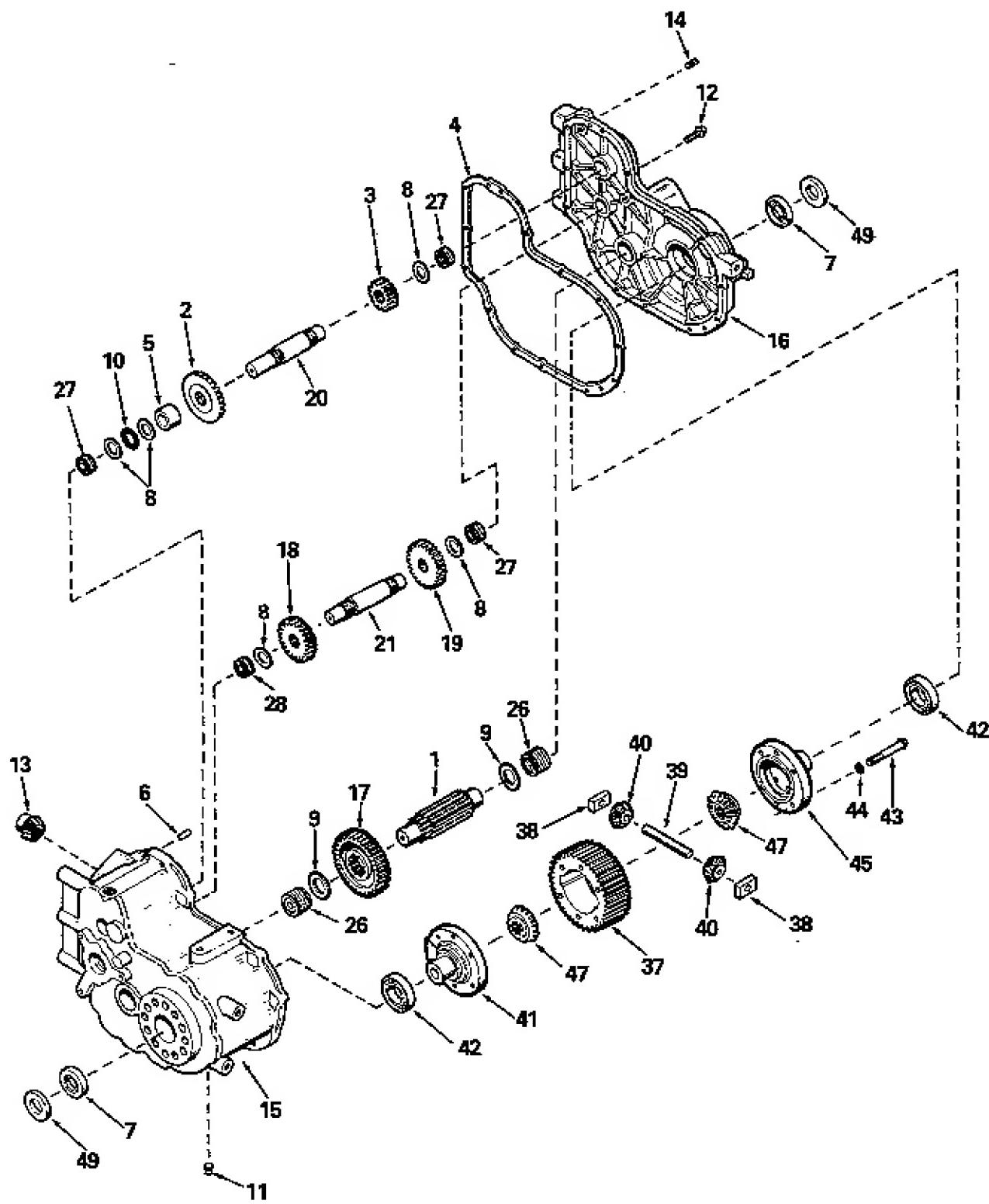


Ref. No.	Part No.	Qty.	Description
1	1678576	1	DECAL, Panel, Rear Dash (Choke, Ignition, etc.)
2	1676092	1	DECAL, Indicator, R.H. (Front PTO, Seat)
3	1679709	1	DECAL, Steering Wheel Shaft, 2" x 5" (1691018 only)
4	1677400	1	DECAL, Tunnel Cover (1691017, 1691250, 1691357, 1691380, 1691528)
	1677401	1	DECAL, Tunnel Cover (1691018)
	1704026	1	DECAL, Tunnel Cover (1691381, 1691710 only)
5	1677390	1	DECAL, Side Panel, L.H. (1691017, 1691380, 1691528 only)
	1677392	1	DECAL, Side Panel, L.H. (1691018, 1691381, 1691710 only)
	1679881	1	DECAL, Side Panel, L.H. (1691250 only)
	1700791	1	DECAL, Side Panel, L.H. (1691357 only)
6	1677389	1	DECAL, Side Panel, R.H. (1691017, 1691380, 1691528 only)
	1677391	1	DECAL, Side Panel, R.H. (1691018, 1691381, 1691710 only)
	1679882	1	DECAL, Side Panel, R.H. (1691250 only)
	1700792	1	DECAL, Side Panel, R.H. (1691357 only)
7	1678629	1	DECAL, Hood, L.H.
	1678628	1	DECAL, Hood, R.H.
8	1677396	4	DECAL, Hub Cap
9		1	I.D. Plate (Not Serviced)
10	1679117	1	DECAL, Warning, Front PTO Shield
11	1677536	1	DECAL, Grille Logo
12		1	DECAL, Battery (Not Serviced)
13	1679675	1	DECAL, Warning (Disconnect Elect. Ground, etc.)
14	1677394	1	DECAL, Rear Logo
15	1676091	1	DECAL, Indicator, L.H. (all models except 1691250, 1691357)
	1704736	1	DECAL, Indicator, L.H. (1691250, 1691357 only)
16	1677395	1	DECAL, Steering Wheel Cap
17	1679155	1	DECAL, Rear PTO (1691710)



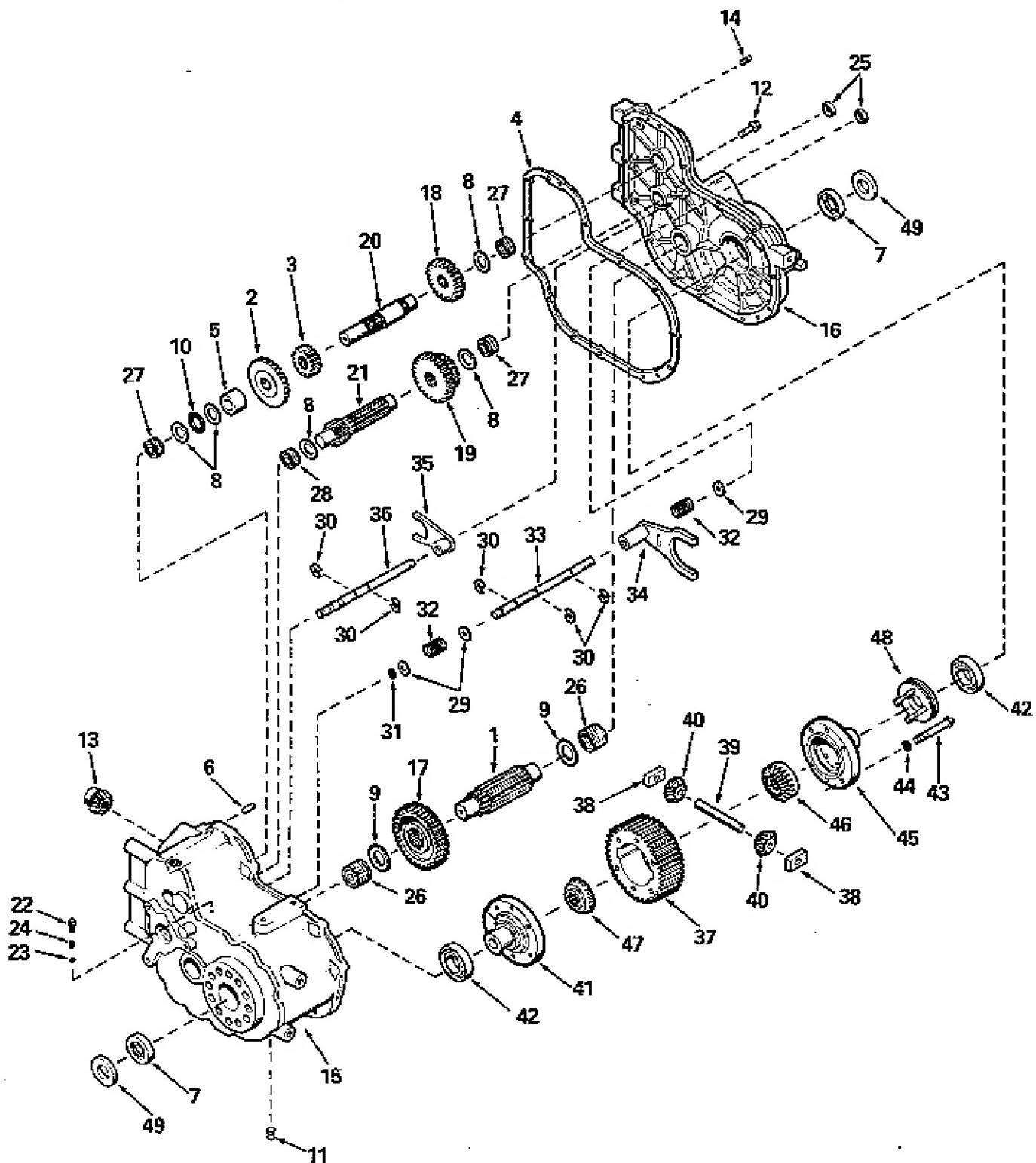
Decal Group

Ref. No.	Part No.	Qty.	Description
1	1678576	1	DECAL, Panel, Rear Dash (Choke, Ignition, etc.)
2	1677400	1	DECAL, Tunnel Cover (1691924 only)
	1704026	1	DECAL, Tunnel Cover (1691926, 1691928, 1691953 only)
3	1706199	1	DECAL, Hood, L.H.
	1706198	1	DECAL, Hood, R.H.
4	1679117	1	DECAL, Warning, Front PTO Shield
5		1	DECAL, Battery (Not Serviced)
6	1679675	1	DECAL, Warning (Disconnect Elect. Ground, etc.)
7	1666202	1	DECAL, Rear Logo
8	1677395	1	DECAL, Steering Wheel Cap
9	1679155	1	DECAL, Rear PTO (1691928 only)
10	1706040	1	DECAL, Model 18GTH
	1706041	1	DECAL, Model 20GTH
11		1	I.D. Plate (Not Serviced)



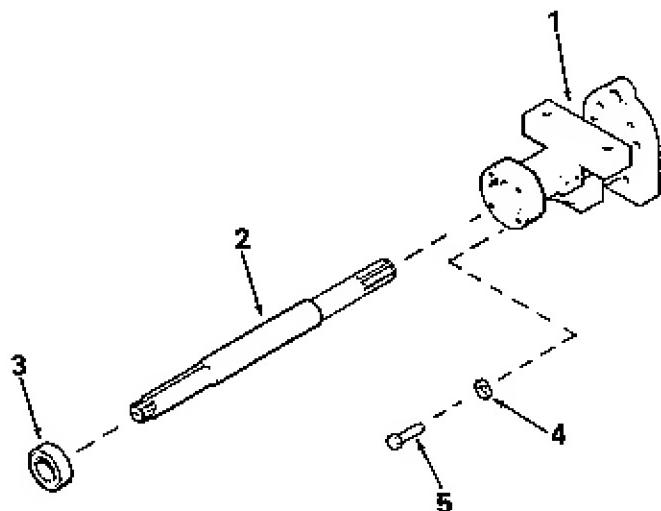
Ref. No.	Part No.	Qty.	Description
1	776120	1	PINION, Output
2	778087	1	GEAR, Bevel (30 teeth)
3	778088	1	GEAR, Spur (16 teeth)
4	788058	1	GASKET, Case & Cover
5	786094	1	SPACER, 1-5/8 OD x 1-1/64 ID x 55/64 thick
6	786026	2	PIN, Dowel
7	788049	2	SEAL, Oil
8	780045	5	WASHER, Thrust, 1.542 OD x 1.007 ID x .060 thick
9	780101	2	WASHER, Thrust, 1.917 OD x 1.257 ID x .060 thick
10	780012	1	BEARING, Thrust
11	792019	1	PLUG, Magnetic drain, 3/8-18
12	792067	13	SCREW, Hex Hd. Threadforming, 5/16-18 x 1
13	778155	1	PINION, Bevel
14	792039	2	PLUG, Pipe, 1/8-27
15	770073	1	CASE ASSY., Transaxle (Incl. Ref. Nos. 26, 27 & 28)
16	772087	1	COVER ASSY., Transaxle (Incl. Ref. Nos. 26 & 27)
17	778103	1	GEAR, Output (33 teeth)
18	778102	1	GEAR, Spur (17 teeth)
19	778160	1	GEAR, Spur (27 teeth)
20	776213	1	SHAFT, Counter
21	776214	1	SHAFT, Brake
26	780099	2	BEARING, Needle
27	780100	3	BEARING, Needle
28	780126	1	BEARING, Needle
37	778156	1	GEAR, Ring
38	786098	2	BLOCK, Drive
39	786096	1	PIN, Drive
40	778157	2	PINION, Bevel
41	774486	1	CARRIER, Differential
42	780125	2	BEARING, Ball
43	792101	6	SCREW, Hex Flanged Hd., 3/8-16 x 2-3/4
44	792011	6	LOCKWASHER, 3/8"
45	774490	1	CARRIER, Differential
47	778158	2	GEAR, Bevel
49	786097	2	SPACER, 2-1/8 OD x 1-5/32 ID x 3/8 thick

NOTE: See an authorized Tecumseh distributor for parts and service. Peerless parts are not available through Simplicity.



Ref. No.	Part No.	Qty.	Description
1	776120	1	PINION, Output
2	778087	1	GEAR, Bevel (30 teeth)
3	778088	1	GEAR, Spur (16 teeth)
4	788058	1	GASKET, Case & Cover
5	786094	1	SPACER, 1-5/8 OD x 1-1/64 ID x 55/64 thick
6	786026	2	PIN, Dowel
7	788049	2	SEAL, Oil
8	780045	5	WASHER, Thrust, 1.542 OD x 1.007 ID x .060 thick
9	780141	2	WASHER, Thrust, 2.187 OD x 1.257 ID x .060 thick
10	780012	1	BEARING, Thrust
11	792019	1	PLUG, Magnetic drain, 3/8-18
12	792067	13	SCREW, Hex Hd. Threadforming, 5/16-18 x 1
13	778155	1	PINION, Bevel
14	792039	2	PLUG, Pipe, 1/8-27
15	770073	1	CASE ASSY., Transaxle (Incl. Ref. Nos. 26, 27 & 28)
16	772086	1	COVER ASSY., Transaxle (Incl. Ref. Nos. 26 & 27)
17	778098	1	GEAR, Output (37 teeth)
18	778099	1	GEAR, Spur (23 teeth)
19	778100	1	GEAR, Spur (23 & 27 teeth)
20	776209	1	SHAFT, Counter
21	776212	1	SHAFT & GEAR, Shifter
22	792100	1	SCREW, Hex Flanged Hd. 1/4-20 x 5/8
23	792004	1	BALL, Steel, 3/16
24	792003	1	SPRING, Shifter Fork
25	788034	2	SEAL, Oil
26	780099	2	BEARING, Needle
27	780100	3	BEARING, Needle
28	780126	1	BEARING, Needle
29	780070	3	WASHER, Thrust, .917 OD x .507 ID x .060 thick
30	792064	5	RING, Retaining
31	792099	1	RING, Retaining
32	792102	2	SPRING, Compression
33	784327	1	ROD, Shift (Differential Lock)
34	784328	1	FORK, Shift
35	784195	1	FORK, Shift
36	784326	1	ROD, Shift (Hi-Low)
37	778156	1	GEAR, Ring
38	786098	2	BLOCK, Drive
39	786096	1	PIN, Drive
40	778157	2	PINION, Bevel
41	774486	1	CARRIER, Differential
42	780125	2	BEARING, Ball
43	792101	6	SCREW, Hex Flanged Hd., 3/8-16 x 2-3/4
44	792011	6	LOCKWASHER, 3/8"
45	774487	1	CARRIER, Differential
46	778159	1	GEAR, Bevel
47	778158	1	GEAR, Bevel
48	784325A	1	COLLAR ASSY., Shift
49	786097	2	SPACER, 2-1/8 OD x 1-5/32 ID x 3/8 thick

NOTE: See an authorized Tecumseh distributor for parts and service. Peerless parts are not available through Simplicity.



Ref. No.	Part No.	Qty.	Description
1	782064	1	HOUSING, Axle, 8-3/8" long
2	774492	1	AXLE, 16-9/16" long
3	780127	1	BEARING, Ball
4	792103	1	FLATWASHER, 3/8
5	792087	1	SCREW, Hex Hd. Cap, 3/8-16 x 3/4

NOTE: See an authorized Tecumseh distributor for parts and service. Peerless parts are not available through Simplicity.

**TORQUE SPECIFICATIONS FOR
STANDARD MACHINE HARDWARE**
TOLERANCE $\pm 20\%$

SIZE	SAE GRADE #2		SAE GRADE #5		SAE GRADE #8	
		In. Lbs.		In. Lbs.		In. Lbs.
8-32	19	In. Lbs.	30	In. Lbs.	41	In. Lbs.
8-36	20	"	31	"	43	"
10-24	27	"	43	"	60	"
10-32	31	"	49	"	68	"
1/4-20	66	"	8	Ft. Lbs	12	Ft. Lbs.
1/4-28	76	"	10	"	14	"
5/16-18	11	Ft. Lbs	17	"	25	"
5/16-24	12	"	19	"	25	"
3/8-16	20	"	30	"	45	"
3/8-24	23	"	35	"	50	"
7/16-14	30	"	50	"	70	"
7/16-20	35	"	55	"	80	"
1/2-13	50	"	75	"	110	"
1/2-20	55	"	90	"	120	"
9/16-12	65	"	110	"	150	"
9/16-18	75	"	120	"	170	"
5/8-11	90	"	150	"	220	"
5/8-18	100	"	180	"	240	"
3/4-10	160	"	260	"	386	"
3/4-16	180	"	300	"	420	"
7/8-9	140	"	400	"	600	"
7/8-14	155	"	440	"	660	"
1-8	220	"	580	"	900	"
1-12	240	"	640	"	1,000	"

NOTE:

1. These torque values are to be used for all *Simplicity* hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
2. Recommended seating torque values for locknuts:
 - a. For prevailing torque locknuts - use 65% of grade 5 torques.
 - b. For flange whizlock nuts (and screws) - use 135% of grade 5 torques.
3. Unless otherwise noted on assembly drawings all torque values must meet this specification.

BOLT HEAD MARKING

S.A.E. GRADE:



Simplicity

Outdoor Power
Equipment

SIMPPLICITY MANUFACTURING, INC. • 500 N. Spring Street, P.O. Box 997 • Port Washington, WI 53074-0997

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